

AMITRIPTYLINE HCL (Elavil)

25 mg Tablets 100/\$5.20

AMITRIPTYLINE AND PERPHENAZINE (Triavil 2-25)

Each Tablet Contains: 100/\$7.36

Amitriptyline.....25 mg

Perphenazine..... 2 mg

AMITRIPTYLINE AND PERPHENAZINE (Triavil 4-25)

Each Tablet Contains 100/\$8.46

Amitriptyline.....25 mg

Perphenazine..... 4 mg

AMMONIA INHALANT SOLUTION, AROMATIC

1/3 ml 10/\$0.23

AMMONIA SPIRIT, AROMATIC, NF

118 ml/\$0.29

AMMONIATED MERCURY OINTMENT USP

60 Gram/\$0.28

AMMONIUM CHLORIDE USP

500 mg Tablet 100/\$0.37

AMMONIUM CHLORIDE INJECTION (Quadrate)

21.4% Solution (4mEq/ml) 30 ml

AMOBARBITAL SODIUM USP

200 mg Capsule 100/\$0.54

500 mg Ampul 500 mg/\$0.43

Ampak - See PETROLATUM LIQUID, LIGHT, STERILE

Amphojel - See ALUMINUM HYDROXIDE GEL

AMPHOTERICIN B (Fungizone)

50 mg Vial for Infusion 50 mg/\$1.48

3% Topical Lotion 30 ml/\$1.68

AMPICILLIN (Polycillin) (Penbriten)

250 mg Capsule 100/\$5.54

500 mg Vial 500 mg/\$0.34

250 mg per 5 ml Oral Suspension 150 ml/\$2.12

1 Gram Vial 16 ml/\$0.62

8904 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

A.M.T. - See ALUMINUM HYDROXIDE GEL AND MG TRISILICATE

AMYL NITRITE NF
0.33 ml 12/\$1.12

Amytal - See AMOBARBITAL SODIUM

ANALGESIC BALM
Contains 30 Gram Tube/\$0.23
Menthol.....15%
Methyl Salicylate.....15%

ANAL PASTE
Contains: 60 Gram Jar
Menthol..... 0.54 Gm
Phenol Liquified..... 1.1 ml
Boric Acid..... 13.2 Gm
Zinc Oxide Powder.....109.8 Gm
Petrolatum White.....109.8 Gm
Cold Cream U.S.P.....219.6 Gm

Ananase - See BROMELAIN

Anectine - See SUCCINYLCHOLINE CHLORIDE

Anestacon - See LIDOCAINE HCL

Angio-Conray - See SODIUM IOTHALAMATE INJECTION

Anselysen - See PENTOLINIUM TARTRATE INJECTION

\ Antabuse - See DISULFIRAM

Antepar - See PIPERAZINE CITRATE SYRUP

Antichlor - See SODIUM THIOSULFATE

ANTIGEN, LYMPHOGRANULOMA VENEREUM (Frei Antigen)
1 ml/\$2.00

ANTIHEMOPHLIC FACTOR (Human) (Hemofil)
Method Four 7 ml/\$29.98

- Antiseptic No. 3 - See MERCURY CYANIDE
- ANTIPYRINE AND BENZOCAINE EAR DROPS (Auralgan)
 Each ml Contains 15 ml/\$0.19
 Antipyrine.....54 mg
 Benzocaine.....14 mg
 Glycerin (Anhydrous)..... 1.19 Gm
 8-Hydroxyquinoline Sulfate..... 0.375 mg
- ANTIRABIES SERUM USP
 1000 Units/\$5.10
- ANTIVENIN, CROTALINE, POLYVALENT USP (Snake Bite Antivenin)
 \$5.50
- ANTIVENIN LATRODECTUS MACTANS (Black Widow Spider Antivenin)
- ANTIVENIN MICRURUS FULVIUS (Coral Snake Antivenin)
- Anusol Suppositories - See HEMORRHOIDAL SUPPOSITORIES
- APC - See ASPIRIN, PHENACETIN, AND CAFFEINE
- APC With Codeine - See ASPIRIN, PHENACETIN, CAFFEINE, AND CODEINE
- A.P.L. - See CHORIONIC GONADOTROPIN
- Apresoline - See HYDRALAZINE HCL
- Aqua-Mephyton - See PHYTONADIONE INJECTION
- Aralen - See CHLOROQUINE PHOSPHATE
- Aramine - See METARAMINOL BITRATRATE
- Arfonad - See TRIMETHAPHAN CAMPHORSULFANATE INJECTION
- L-ARGININE MONOHYDROCHLORIDE (R-Genex)
 5% Solution 400 ml/\$7.91
- Argyrol - See SILVER PROTEIN MILD
- Arlidin - See NYLIDRIN HCL

8906 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Aristocort Cream - See TRIAMCINOLONE ACETONIDE CREAM

ARISTOCORT AND LCD CREAM

5% LCD in 0.1% Aristocort 60 Gram Jar

Aristocort Forte - See TRIAMCINOLONE DIACETATE SUSPENSION

Artane - See TRIHEXYPHENIDYL HCL

ARTIFICIAL SALIVA

Contains:

Methylcellulose Jelly 4%	20 ml
Glycerin.....	10 ml
Lemon Oil.....	1 drop
Normal Saline.....qs.....	90 ml

ASCORBIC ACID USP (Vitamin C)

50 mg Tablets	100/\$0.18
500 mg Tablets	100/\$0.47
50 mg per ml Injection	2 ml/\$0.97
50 mg per 0.6 ml Solution	50 ml (CE-VI-Sol)/\$1.16

ASPIRIN, AMPHETAMINE SULFATE, AND PHENACETIN (Edrisal)

Each Tablet Contains:	100/\$2.20
Amphetamine Sulfate.....	2.5 mg
Phenacetin.....	160 mg
Aspirin.....	160 mg

ASPIRIN AND ETHOHEPTAZINE (Zactirin)

Each Tablet Contains:	100/\$2.42
Aspirin.....	325 mg
Ethoheptazine Citrate.....	75 mg

ASPIRIN, PHENACETIN, AND CAFFEINE (APC) (PAC)

Each Tablet Contains:	100/\$0.15
Aspirin.....	227 mg
Caffeine.....	32 mg
Phenacetin.....	162 mg

Codeine Phosphate (APC With Codeine)	32 mg	100/\$2.34
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ASPIRIN, USP

324 mg Tablets	100/\$0.09
324 mg Tablet, Enteric Coated	100/\$0.74
324 mg Tablet, Buffered	100/\$0.40
325 mg Suppository	12/\$0.62
650 mg Suppository	12/\$1.04

ASTRINGENT MOUTHWASH

120 ml Bottles

ASTRINGENT SOLUTION

Contains:	240 ml
Boric Acid.....	5 Gm
Alcohol USP.....	93.5 ml
Acetone.....	5.0 ml
Camphor.....	1.0 Gm

Atabrine - See QUINACRINE HCL

Atarax - See HYDROXYZINE HCL

Atromid-S - See CLOFIBRATE

ATROPINE ALKALOID (Atropisol)

1/4% in Castor Oil Dropperete 2 ml/\$0.36

ATROPINE SULFATE USP

1% Ophthalmic Solution	15 ml/\$0.29
1% Ophthalmic Ointment	3.5 Gm/\$0.12
1% Ophthalmic Solution, Sterile Dropperete	2 ml/\$0.29
0.5% Ophthalmic Ointment	3.5 Gm/\$0.60
0.4 mg per ml	20 ml/\$0.31

Auralgan - See ANTIPYRINE AND BENZOCAINE

Aureomycin - See CHLORTETRACYCLINE HCL

AVC Vaginal Cream - See SULFANILAMIDE, ALLANTOIN, AND AMINACRINE

Aveeno - See OATMEAL COLLOIDAL CONCENTRATE

Aventyl - See NORTRIPTYLINE HCL

8908 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Avlosulfon - See DAPSONE

AZATHIOPRINE (Imuran)

50 mg Tablet

100/\$9.86

Azulfidine - See AZULFIDINE

B

Baby Aspirin - See ALUMINUM ASPIRIN TABLETS

BACE MIXTURE

Each 5 ml Contains: 240 ml
 Diphenhydramine HCL..... 3.1 mg
 Hydroxyzine HCL..... 2.5 mg
 Chlortrimeton..... 0.6 mg
 Ephedrine Sulfate..... 2.5 mg

Bacid - See LACTOBACILLUS ACIDOPHILUS CAPSULE

BACITRACIN USP

50,000 Unit Vial, Topical or I.M. Vial/\$0.99
 500 Units per Gm Ointment 15 Gm/\$0.15
 500 Units per Gm Ophthalmic Ointment 3.5 Gm/\$0.14

BACITRACIN-NEOMYCIN OINTMENT

Each Gm Contains: 15 Gm/\$0.15
 Bacitracin.....500 Units
 Neomycin (As Neomycin Sulfate).. 3.5 mg

Bal - See DIMECAPROL INJECTION

BALANCED SALT SOLUTION (BSS)

15 ml Steri-Unit/\$1.70

B and O Suppettes - See BELLADONNA AND OPIUM

Banthine - See METHANTHELINE BROMIDE

BEER

12 oz Can/\$0.15

BELLADONNA ALKALOIDS WITH PHENOBARBITAL (Donnatal)

Each Tablet or 5 ml of Elixir Contains: 100/\$0.22
 Atropine Sulfate.....0.0194 mg 100 ml/\$0.18
 Hyoscine Hydrobromide.....0.0065 mg
 Hyoscyamine Sulfate.....0.1037 mg
 Phenobarbital.....16.2000 mg

BELLADONNA AND OPIUM SUPPOSITORY (B and O Suppettes)

Each Suppository Contains: 12/\$2.50
 Opium Powder.....60 mg
 Belladonna Extract.....15 mg

8910 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

BELLADONNA TINCTURE USP
30 ml/\$0.06

Bellergal Spacetabs - See ERGOTAMINE TARTRATE, BELLADONNA ALKALOIDS AND
PHENOBARBITAL

Benadryl - See DIPHENHYDRAMINE HCL

Bendectin - See DICYCLOMINE, DOXYLAMINE AND PYRIDOXINE

Bendopa - See LEVODOPA

Benemid - See PROBENECID

Benylin Expectorant - See DIPHENHYDRAMINE HCL, AMMONIUM CHLORIDE, MENTHOL,
AND SODIUM SODIUM CITRATE SYRUP

BENZALKONIUM CHLORIDE SOLUTION (Zephiran)
10% Solution 118 ml/\$0.18

BENZATHINE PENICILLIN G SUSPENSION (Bicillin)
600,000 Units in 1 ml Cartridge-Needle Unit 1 ml/\$0.45
600,000 Units per ml 2 ml Cartridge-Needle Unit 2 ml/\$0.73

BENZANTHINE PENICILLIN G AND PROCAINE PENICILLIN G (Bicillin-CR)
Each 2 ml Cartridge-Needle Unit Contains: 2 ml/\$0.57
600,000 Benzanthine Penicillin G
600,000 Procaine Penicillin G

BENZANTHINE PENICILLIN G, PROCAINE PENICILLIN G, POTASSIUM PENICILLIN G
FOR INJECTION (Bicillin All Purpose)
Contains: Vial/\$0.42
Benzanthine Penicillin G.....600,000 Units
Potassium Penicillin G.....300,000 Units
Procaine Penicillin G.....300,000 Units

Benzedrex - See PROPYLHEXEDRINE INHALANT

BENZOIC ACID AND SALICYLIC ACID (Whitfield's Ointment)
Contains: 30 Gram
Benzoic Acid.....6%
Salicylic Acid.....3%

BENZOIN TINCTURE, COMPOUND, USP
30 ml

BENZONATATE (Tessalon Perles)

100 mg Capsules 100/\$4.06

BENZTROPINE MESYLATE NF (Cogentin)

2 mg Tablet 100/\$3.07

1 mg per ml 2 ml/\$0.86

BEPHENIUM HYDROXYNAPHTHOATE FOR ORAL SUSPENSION (Alicopara)

5 Gram Packet 10 Gm/\$1.53

Beta-Chlor - See CHLORAL BETAINE

Betadine - See PAVIDONE-IODINE SOLUTION

BETAMETHASONE VALERATE (Valisone)

0.1% Cream 15 Gm/\$1.80

BETAZOLE HCL INJECTION (Histalog)

50 mg per ml 1 ml/\$0.42

BETHANECHOL CHLORIDE USP (Urecholine)

10 mg Tablets 100/\$5.40

25 mg Tablet 100/\$9.86

5 mg per 1 ml Ampul 1 ml/\$0.55

BISACODYL (Dulcolax)

5 mg Tablet 100/\$2.25

10 mg Suppository 10/\$0.82

Bicillin - See BENZANTHIN PENICILLIN G

Bicillin All Purpose - See BENZANTHINE PENICILLIN G PROCAINE PENICILLIN

Bicillin-CR - See BENAZTHINE PENICILLIN G AND PROCAINE PENICILLIN G

BISHYDROXYCOUMARIN USP (Dicoumarol)

50 mg Tablet 100/\$0.63

BISMUTH AND PAREGORIC

Contains: 120 ml

Bismuth Subcarbonate..... 8.01%

Paregoric.....50.0%

Simple Syrup.....25.0%

Kaolin and Pectin Mixture..13.24%

Dimineralized Water qs

8912 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

BISMUTH SUBCARBONATE USP

324 mg Tablet	100/\$0.92
Powder	453.6 Gm/\$7.92

BISULFAN (Myleran)

2 mg Tablet	25/\$1.41
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Black Widow Spider Antivenin - See ANTIVENIN LATRODECTUS MACTANS

BLADDER SEDATIVE MIXTURE

Contains:	240 ml
Hyoscyamus Tincture.....	22.5 ml
Potassium Citrate.....	22.5 Gm
Phenobarbital Elixir...qs....	100.0 ml

BLASTOMYCIN SKIN TEST

1 ml/\$1.81

Blinx - See BORIC ACID AND SODIUM BORATE OPHTHALMIC

Bonine - See MECLIZINE HCL

Bonodoxine - See MECLIZINE AND PYRIDOXINE

BORIC ACID AND ALCOHOL OTIC DROPS

Contains:	15 ml
Alcohol USP.....	50%
Boric Acid Saturated Solution....	50%

BORIC ACID AND SODIUM BORATE OPHTHALMIC SOLUTION (Blinx)

Sterile, Isotonic, Alkaline Borate Buffer	120 ml/\$0.84
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BORIC ACID OPHTHALMIC

5% Ointment	3.5 Gm/\$0.10
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BREVITAL FOR INJECTION

2.5 Gram Vial/\$2.38

Brewer's Yeast Tablets - See YEAST TABLETS, DRIED

BRISTOJECT SYRINGES

Aminophylline	
250 mg	10 ml/\$1.02
500 mg	20 ml/\$1.36

Calcium Chloride	
10%	10 ml/\$1.02

Dextrose	
50%	50 ml/\$1.94

Epinephrine	
1:10,000	10 ml/\$1.12

Lidocaine	
1%	10 ml/\$1.24
2%	5 ml/\$1.02

Sodium Bicarbonate	
7.5%	50 ml/\$1.94

BROMELAIN (Ananase)	
50,000 Unit Tablets	100/\$5.77

BROMPHENIRAMINE MALEATE (Dimetane)	
12 mg Tablets, Sustained Release	100/\$3.52

BROMPHENIRAMINE, PHENYLEPHRINE, AND PHENYLPROPANOLAMINE (Dimetapp)	
Each 5 ml Contains:	120 ml/\$0.51
Brompheniramine Maleate.....	4 mg
Phenylephrine HCL.....	5 mg
Phenylpropanolamine HCL.....	5 mg

BROMPHENIRAMINE, PHENYLEPHRINE, AND PHENYLPROPANOLAMINE	
Each Sustained Release Tablet Contains:	100/\$3.80
Brompheniramine Maleate.....	12 mg
Phenylephrine HCL.....	15 mg
Phenylpropanolamine.....	15 mg

Brondecon - See OXTRIPHYLLINE AND GLYCERYL GUAIACOLATE

BRUCELLA PROTEIN NUCLEATE (Brucellergen)	
1 ml/\$0.77	

8914 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

B.S.P. - See SODIUM SULFOBROMOPHTHALEIN INJECTION

BSS - See BALANCED SALT SOLUTION

BUNNELL'S SOLUTION

Contains:

Benzalkonium Chloride 10%.....	0.325%
Glycerin, USP.....	20.000%
Glacial Acetic Acid.....	0.500%
Demineralized Water.....	79.100%

Burow's Ear Drops - See ALUMINUM ACETATE OTIC SOLUTION

Burow's Solution Tablet - See ALUMINUM ACETATE SOLUTION TABLETS

BUTALBITAL, ASPIRIN, CAFFEINE, AND PHENACETIN (Fiorinal)

Each Tablet Contains: 100/\$0.91

Aspirin.....	200 mg
Butalbitol.....	50 mg
Caffeine.....	40 mg
Phenacetin.....	130 mg

Butazolidin - See PHENYLBUTAZONE

C

Cafergot - See ERGOTAMINE TARTRATE AND CAFFEINE

Cafergot-PB - See ERGOTAMINE TARTRATE, BELLADONNA ALKALOID

CAFFEINE AND SODIUM BENZOATE INJECTION USP
250 mg per ml 2 ml/\$0.06

CALAMINE LOTION
120 ml

CALCIFLOR ORAL SUSPENSION
Contains: 240 ml
Calcium Gluconate.....36%
Sodium Fluoride..... 0.2%

CALCIUM CARBONATE AND AMINOACETIC ACID (Titalac)
Each Tablet Contains: 100/\$0.58
Aminoacetic Acid.....180 mg
Calcium Carbonate.....420 mg

CALCIUM CHLORIDE INJECTION, NF
100 mg per ml 10 ml/\$0.24

CALCIUM DISODIUM EDETATE INJECTION (Versenate)
0.2 Gram per ml, 5 ml/\$1.14

CALCIUM GLUCEPTATE INJECTION
Each ml Contains 18 mg of Calcium 5 ml/\$0.14
Equivalent in Calcium Content to 2 ml Calcium Gluconate Injection

CALCIUM LACTATE NF
650 mg Tablet 100/\$0.34

CALCIUM LEUCOVORIN (Folinic Acid)
3 mg per ml 1 ml/\$1.22

CALCIUM PROPIONATE-SODIUM PROPIONATE JELLY (Propion Gel)
Contains:
Calcium Propionate,...10%
Sodium Propionate.....10%

8916 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

CAMPHOR EMULSION

Contains: 240 ml
 Camphor..... 1.0%
 Olive Oil.....49.0%
 Lime Water.....49.0%

CAMPHOR ICE

Contains: 30 Gram
 Petrolatum Liquid.....12.0%
 Paraffin.....36.2%
 Petrolatum White.....41.8%
 Champor.....10.00%

CAMPHOR SPIRITS (Spirits of Camphor)

Camphor.....10% 60 ml

CANTHARIDIN COLLODION (Cantharone)

Contains: 7.5 ml/\$3.50
 0.7% Cantharidin

CARBACHOL (Isopto Carbachol)

3% Ophthalmic Solution 15 ml/\$2.00

CARBAMAZEPINE (Tegretol)

200 mg Tablet 100/\$8.10

CARBENICILLIN (Geopen) (Pyopen)

1 Gm Vial/\$2.80
 5 Gm Vial/\$11.88

Carbocaine - See MEPIVACAINE HCL

Cardioquin - See QUINIDINE POLYGALACTURONATE

CARCIA PAPAYA PROTEOLYTIC ENZYMES (Papase)

10,000 Unit Tablet 100/\$7.75

CASCARA SAGRADA FLUIDEXTRACT, AROMATIC USP (Cas-Evac)

120 ml/\$0.23

CASCARA

250 mg Tablet 100/\$0.31

Cas-Evac - See CASCARA SAGRADA FLUIDEXTRACT

CASTOR OIL
60 ml/\$0.07

Cedilapid-D - See DESLANOSIDE INJECTION

Celontin - See METHSUXIMIDE

CEPHALEXIN MONOHYDRATE (Keflex)
250 mg Capsules 24/\$8.40
125 mg per 5 ml Oral Suspension 120ml/\$4.00

CEPHALOGLYCIN DIHYDRATE (Kafocin)
250 mg Capsules 100/\$26.25

CEPHALORIDINE FOR INJECTION (Loridine)
1 Gram Vial/\$2.96

Cerespan - See PAPAVERINE HCL

Cerumenex - See TRIETHANOLAMINE POLYPEPTIDE OLEATE-CONDENSATE

Cetacaine - See AMINOBENZOATE AND TETRACAINE

CE-VI-SOL - See ASCORBIC ACID

CHARCOAL, ACTIVATED, USP
453.6 Gm/\$2.55

CHIGGER LOTION
Contains: 15 ml
Ether..... 7.5 ml
Glycerin..... 12.5 ml
Phenol..... 5.0 ml
Iodine Tincture 7%..... 5.0 ml
Isopropyl Alcohol qs..100.0 ml

CHLORAL BETAINE (Beta-Chlor)
Tablet equivalent to 500 mg Chloral Hydrate 30/\$0.74

8918 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

CHLORAL HYDRATE USP

500 mg per 5 ml Syrup 120 ml/\$0.23

CHLORAMBUCIL (Leukeran)

2 mg Tablet 50/\$2.26

CHLORAMPHENICOL USP (Chloromycetin)

250 mg Capsule 100/\$4.78

125 mg per 4 ml Oral Suspension (Palmitate) 60 ml/\$0.88

0.5% Ophthalmic Solution (Chloroptic) 7.5 ml/\$0.86

1% Ointment 3.5 Gm/\$0.49

1 Gm Vial (Sodium Succinate) 1 Gm/\$0.79

Chloraseptic - See MOUTHWASH ANESTHETIC

CHLORDANTOIN AND BENZALKONIUM CHLORIDE CREAM (Sporostacin)

Consists of: (Tube With Attachable Applicator) 95 Gm/\$1.80

Base.....98.95%

Benzalkonium Chloride..... 0.05%

Chlordantoin..... 1.00%

CHLORDIAZEPOXIDE HCL NF (Librium)

5 mg Capsule 100/\$3.36

10 mg Capsule 100/\$2.82

25 mg Capsule 100/\$5.14

100 mg Injection for I.M. 100 mg/\$0.42

Chloromycetin - See CHLORAMPHENICOL

CHLOROPROCAINE HCL (Nescaine-CE)

2% Solution 50 ml Ampul/\$2.76

3% Solution 50 ml Ampul/\$2.97

CHLOROQUINE AND PRIMAQUINE PHOSPHATE

Each Tablet Contains: 100/\$2.20

Chloroquine Phosphate 500 mg

Primaquine Phosphate 79 mg

CHLOROQUINE HCL INJECTION

200 mg Ampul 200 mg/\$0.16

CHLOROQUINE PHOSPHATE USP (Aralen)		
500 mg Tablets, Sugar Coated	100/\$1.19	
CHLOROTHIAZIDE NF (Diuril)		
250 mg per 5 ml Oral Suspension	240 ml/\$2.15	
CHLOROTRIANISENE (Tace)		
72 mg Capsules	48/\$17.34	
CHLORPHENIRAMINE MALEATE USP (Chlortrimeton)		
4 mg Tablet	100/\$0.06	
8 mg Tablet, Sustained Release	100/\$0.46	
2 mg per 4 ml Syrup	120 ml/\$0.10	
CHLORPHENIRAMINE AND EPHEDRINE SYRUP		
Each 5 ml Contains:	240 ml	
Chlorpheniramine Maleate Syrup.....	1.25 mg	
Ephedrine Sulfate Syrup.....	5.00 mg	
CHLORPHENIRAMINE AND PHENYLEPHRINE (Novahistine LP)		
Each Tablet Contains:	100/\$3.32	
Chlorpheniramine Maleate.....	4 mg	
Phenylephrine HCL.....	25 mg	
CHLORPHENIRAMINE, ASPIRIN, CAFFEINE, AND PHENYLEPHRINE (Coricidin D)		
Each Tablet Contains:	100/\$1.02	
Aspirin.....	388.8 mg	
Caffeine.....	32.4 mg	
Chlorpheniramine Maleate.....	2.0 mg	
Phenylephrine.....	10.0 mg	
CHLORPHENIRAMINE MALEATE, CHLOROFORM, CODEINE PHOSPHATE, GLYCERYL GUAIACOLATE, MENTHOL, AND PHENYLEPHRINE HCL SYRUP (Novahistine Expectorant)		
Each 5 ml Contains:	120 ml/\$0.90	
Chloroform.....	13.5 mg	
Chlorpheniramine Maleate.....	2.0 mg	
Codeine Phosphate.....	10.0 mg	
Glyceryl Guaiacolate.....	100.0 mg	
Menthol.....	1.0 mg	
Phenylephrine HCL.....	10.0 mg	
CHLORPHENIRAMINE, ISOPROPAMIDE, AND PHENYLPROPANOLAMINE (Ornade)		
Each Sustained Release Capsule Contains:	100/\$5.98	
Chlorpheniramine Maleate.....	8.0 mg	
Isopropamide Iodide.....	2.5 mg	
Phenylpropanolamine HCL.....	50.0 mg	

8920 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

CHLORPHENTERMINE HCL (Pre-Sate)

Each Sustained Release Tablet Contains: 100/\$7.35
65 mg of Chlorphentermine

CHLORPROMAZINE USP (Thorazine)

25 mg Tablet	100/\$3.31
50 mg Tablet	100/\$2.48
100 mg Tablet	100/\$3.39
75 mg Capsule, Sustained Release	100/\$8.28
150 mg Capsule, Sustained Release	100/\$25.56
25 mg per ml Injection	2 ml/\$0.35
30 mg per ml Solution with Dropper	118 ml/\$1.70
25 mg Suppository	6/\$1.05
10 mg per 5 ml Syrup	120 ml/\$1.23

CHLORPROPAMIDE (Diabinese)

250 mg Tablet 100/\$5.32

CHLORTETRACYCLINE HCL (Aureomycin)

250 mg Capsule 100/\$3.12

CHLORTHALIDONE (Hygroton)

100 mg Tablet 100/\$4.34

Chlortrimeton - See CHLORPHENIRAMINE MALEATE

CHOLESTYRAMINE RESIN (Questran) (Cuemid)

4 Gm Packett	50/\$7.43
216 Gm Bottle	216 Gm/\$7.45

Choloxin - See DEXTROXINE SODIUM

CHORIONIC GONADOTROPIN (A.P.L.)

10,000 Unit per 10 ml	10 ml/\$8.01
20,000 Unit per 10 ml	10 ml/\$14.29

Cidex - See GLUTARALDEHYDE SOLUTION

Citanest - See PRILOCAINE HCL

Citrate of Magnesia - See MAGNESIUM CITRATE

Cleocin - See CLINDAMYCIN HCL HYDRATE

CLINDAMYCIN HCL HYDRATE (Cleocin)

150 mg Capsules 100/\$17.28

Clinistix - See TEST STRIPS AND COLOR CHART, GLUCOSE IN URINE

Clinitest - See URINE SUGAR TEST TABLETS

CLOFIBRATE (Atromid-S)
500 mg Capsule 100/\$5.04

Clomid - See CLOMIPHEN CITRATE

CLOMIPHEN CITRATE (Clomid)
50 mg Tablet 30/\$15.30

COAL TAR SOLUTION USP (LCD) (Liquor Carbonis Detergens)
473 ml/\$1.38

COAL TAR SOLUTION 10% in GREEN SOAP TINCTURE
240 ml

COCAINE HYDROCHLORIDE TOPICAL SOLUTION
Various Concentrations

COCCIDIODIN
1:10 Dilution 1 ml/\$6.75
1:100 Dilution 1 ml/\$3.39

Cocoa Butter - See THEOBROMA OIL

CODEINE PHOSPHATE, USP INJECTION
30 mg Cartridge Needle Unit 25 Gage 1 ml/\$0.18
60 mg Cartridge Needle Unit 25 Gage 1 ml/\$0.20

CODEINE PHOSPHATE SYRUP
Each 5 ml Contains: 120 ml
Codeine Phosphate.....10 mg

CODEINE SULFATE, NF
32 mg Tablet 100/\$1.59

COD LIVER OIL, NF
Each Gram Contains: 473 ml/\$0.91
Vitamin A.....2500 USP Units
Vitamin D..... 250 USP Units
(Approximately 3 Times Minimum NF Requirements)

8922 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Cogentin-See BENZTROPINE MESYLATE

Colchicine, USP
65 mg Tablets 100/\$1.03

COLISTIMETHATE SODIUM AND DIBUCAINE HCL (Colymycin)
150 mg of Colistin 150 mg/\$3.43

COLISTIN, HYDROCORTISONE, NEOMYCIN, AND BROMIDE EAR DROPS (Colymycin)
Each ml Contains: 10 ml/\$1.05
Colistin (As Colistin Sulfate)..... 3.0 mg
Hydrocortisone Acetate.....10.0 mg
Neomycin (As Neomycin Sulfate)..... 3.3 mg
Thonzonium Bromide..... 0.5 mg

COLISTIN SULFATE FOR ORAL SUSPENSION (Coly-Mycin S)
25 mg of Colistin Base per 5 ml 60 ml/\$4.15

Colymycin - See COLISTIMETHATE SODIUM AND DIBUCAINE

Colymycin Ear Drops - See COLISTIN, HYDROCORTISONE, NEOMYCIN

Coly-Mycin S - See COLISTIN SULFATE FOR ORAL SUSPENSION

COLLODION, FLEXIBLE USP
30 ml/\$0.17

Combid - See PROCHLORPERAZINE AND ISOPROPAMIDE

Comhist - See PHENIDEMINE TARTRATE, PHENYLEPHRINE HCL, CHLORPHENIRAMINE
MALEATE, AND DRYTANE

Compazine - See PROCHLORPERAZINE

Conray - See MEGLUMINE IOTHALAMATE INJECTION

Conray-400 - See SODIUM IOTHALAMATE INJECTION

COOK'S OINTMENT
Contains: 30 Gram
Menthol..... 0.3 Gm
Boric Acid..... 74.8 Gm
Mineral Oil USP.....200.0 ml
Petrolatum White.....200.0 Gm

- Co-Pyroneil - See CYCLOPENTAMINE METHAPYRILINE
- Co-Pyroneil Suspension - See PYRROBUTAMINE, CYCLOPENTAMINE
- Coral Snake Antivenin - See ANTIVENIN MICRURUS FULVIUS
- Coramine - See NIKETHAMIDE
- Cordran - See FLURANDRENOLONE
- Coricidin D - See CHLORPHERINE, ASPIRIN, CAFFEINE AND PHENYLEPHRINE
- CORN OIL SUSPENSION (Lipomul Oral)
- | | |
|-----------------|---------------|
| 10 Gm per 15 ml | 500 ml/\$1.80 |
|-----------------|---------------|
- Cortef - See HYDROCORTISONE
- Cortenema - See HYDROCORTISONE SUSPENSION
- Cortril - See HYDROCORTISONE
- CORTICOTROPIN INJECTION, REPOSITORY USP (Acthar Gel)
- | | |
|-----------------|-------------|
| 40 Units per ml | 5 ml/\$1.13 |
| 80 Units per ml | 5 ml/\$2.60 |
- CORTICOTROPIN INJECTION, USP (ACTH)
- | |
|----------------|
| 40 Unit/\$1.03 |
|----------------|
- CORTISONE ACETATE NF (Cortone)
- | | |
|---------------|--------------|
| 5 mg Tablets | 100/\$1.18 |
| 25 mg Tablets | 100/\$1.82 |
| 25 mg per ml | 20 ml/\$1.08 |
- Cortisporin - See NEOMYCIN, HYDROCORTISONE AND POLYMYXIN B SULFATE
- Cortisporin Ophthalmic Ointment - See ZINC BACITRACIN, HYDROCORTISONE, NEOMYCIN SULFATE, AND POLYMYXIN B SULFATE OINTMENT
- Cortone - See CORTISONE ACETATE NF
- Cosmegen - See DACTINOMYCIN

8924 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Cotazym - See PANCRELIPASE

Cough Calmers - See GLYCERYL GUAIACOLATE AND DEXTROMETHORPHAN

Coumadin - See WARFARIN SODIUM

M-CRESYLACETATE (Cresatin)
30 ml/\$0.60

CROTAMITON (Eurax)
10% Cream 60 Gm/\$0.84

Crystodigin - See DIGITOXIN

Crystoids - See HEXYLRESORCINOL PILL NF

Cuemid - See CHOLESTYRAMINE RESIN

Cupramine - See PENICILLAMINE

CYANOCOBALAMIN INJECTION USP (Vitamin B-12)
30 mcg per ml 10 ml/\$0.18
1000 mcg per ml 10 ml/\$0.60

Cyclaine - See HEXYLCAINE HCL

CYCLOPENTAMINE HCL, METHAPYRILENE HCL, AND PYRROBUTAMINE (Co-Pyronil)
Each Capsule Contains: 100/\$1.39
Cyclopentamine HCL.....12.5 mg
Methapyrilene HCL.....25.0 mg
Pyrrobutamine Phosphate.....15.0 mg
Each 5 ml Equivalent to: 120 ml/\$0.46
Cyclopentamine HCL..... 6.25 mg
Methapyrilene HCL.....12.50 mg
Pyrrobutamine Phosphate..... 7.50 mg

CYCLOPHOSPHAMIDE (Cytosan)
50 mg Tablets 100/\$12.93
100 mg Injection /\$1.50
200 mg Injection /\$2.18
500 mg Injection /\$3.97

CYPROHEPTADINE HCL (Periactin)
4 mg Tablet 100/\$4.20

CYTARABINE (Cytosar)

100 mg Vial	100 mg/\$2.53
500 mg Vial	500 mg/\$11.23

Cytomel - See SODIUM LIOTHYRONINE

Cytosar - See CYTARABINE

Cytosan - See CYCLOPHOSPHAMIDE

DACTINOMYCIN (Cosmegen)

500 mcg Vial

500 mcg/\$1.40

Dalmane - See FLURAZEPAM HCL

DANTHRON AND CALCIUM BIS-(Diethyl Sulfosuccinate) (Doxidan)

Each Capsule Contains: 100/\$2.76

Calcium Bis-(Diethyl Sulfosuccinate).....60 mg

Danthron.....50 mg

DAPSONE USP (Avlosulfon)

25 mg Tablet

100/\$0.12

Daranide - See DICHLORPHENAMIDE

Daraprim - See PYRIMETHAMINE

Darvon - See PROPOXYPHENE HCL

Darvon Compound - See PROPOXYPHENE HCL, ASPIRIN, CAFFEINE

Darvon Compound 65 - See PROPOXYPHENE HCL, ASPIRIN, CAFFEINE

DBI-TD - See PHENFORMIN HCL

Decadron - See DEXAMETHASONE

Decholin Injection - See SODIUM DEHYDROCHOLATE INJECTION

Decholin - See DEHYDROCHOLIC ACID

Declomycin - See DEMECLOCYCLINE HCL

DEFEROXAMINE MESYLATE (Desferal)

500 mg Ampul

500 mg/\$2.88

DEHYDROCHOLIC ACID (Decholin)

250 mg Tablet

100/\$1.17

Deladomone - See TESTOSTERONE ENANTHATE AND ESTRADIOL VALERATE

Delalutin - See HYDROXYPROGESTERONE CAPROATE

- Delatestryl - See TESTOSTERONE ENANTHATE
- Delestrogen - See ESTRADIOL VALERATE INJECTION
- DELLEN VAGINAL CREAM KIT
\$1.79
- DELLEN VAGINAL FOAM
20 Gram/\$1.14
- Deltalin - See OLEOVITAMINE D, SYNTHETIC
- Deltasone - See PREDNISONE
- Deluteval 2X - See HYDROXYPROGESTERONE CAPROATE WITH ESTRADIOL VALERATE
- DEMECARIUM BROMIDE (Humorsol)
0.25% Ophthalmic Solution 5 ml/\$1.75
- DEMECLOCYCLINE HCL NF (Declomycin)
150 mg Tablet 100/\$11.80
300 mg Tablet 48/\$10.30
- Demerol - See MEPERIDINE HCL
- Demulen - See ETHYNODIOL DIACETATE AND ETHINYL ESTRADIOL
- Depo-Medrol - See METHYLPREDNISOLONE ACETATE
- Depo-Provera - See MEDROXYPROGESTERONE ACETATE
- Desenex Ointment - See UNDECYLENIC ACID OINTMENT COMPOUND NF
- Desenex - See FOOT POWDER, FUNGICIDAL AND UNDECYLENIC ACID OINTMENT
- Desferal - See DEFEROXAMINE MESYLATE
- DESLANOSIDE INJECTION, NF (Cedilanid-D)
0.2 mg per ml 4 ml/\$0.26
- DETERGENT, NON-IONIC (Airkem)
480 ml/\$0.40

8928 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

DETERGENT, SURGICAL (Phisohex)
148 ml/\$0.40

Dexadrine - See DEXTROAMPHETAMINE SULFATE

DEXAMETHASONE NF

0.5 mg Tablet (Decadron)	100/\$6.20
0.1% Ophthalmic Solution (Maxidex)	5 ml/\$2.03
12.6 Gm Cartridge (Decadron Turbinaire)	12.6 Gm/\$3.64
4 mg per ml Injection (21-Phosphate)	5 ml/\$4.19

Dexamyl - See DEXTROAMPHETAMINE SULFATE AND AMOBARBITAL

DEXBROMPHENIRAMINE AND PSEUDOEPHEDRINE (Disophrol) (Drixoral)

Each Sustained Release Tablet Contains: 100/\$4.90
Dexbrompheniramine Maleate.....6 mg
Pseudoephedrine Sulfate.....120 mg

DEXPANTHENOL INJECTION (Ilopan)

250 mg per ml 2 ml/\$0.37

DEXTROAMPHETAMINE SULFATE USP (Dexadrine)

5 mg Tablet 100/\$0.20

DEXTROAMPEHTAMINE SULFATE AND AMOBARBITAL (Dexamyl)

Each Sustained Release Capsule Contains:

Dexamyl No. 1	100/\$4.16
Dextroamphetamine Sulfate.....	10 mg
Amobarbital.....	65 mg
Dexamyl No. 2	100/\$5.40
Dextroamphetamine Sulfate.....	15 mg
Amobarbital.....	97 mg

DEXTROMETHORPHAN HYDROBROMIDE AND GLYCERYL GUAIACOLATE (Robitussin -DM)

Each 5 ml Contains: 120 ml/\$0.30
Dextromethorphan HBr.....15 mg
Glyceryl Guaiacolate.....100 mg

DEXTROSE INJECTION USP

10% Solution	3 ml/\$0.07
50% Solution	50 ml/\$0.42

Dextrose 100 - See GLUCOSE TEST SOLUTION

DEXTROTHYROXINE SODIUM (Choloxin)
2 mg Tablet 30/\$2.48

D.H.E. 45 - See DIHYDROERGOTAMINE MESYLATE

Diabinese - See CHLORPROPAMIDE

Diamox - See ACETAZOLAMIDE

Diapid Nasal Spray - See LYPRESSIN

DIAZEPAM (Valium)
5 mg Tablet 100/\$3.98
5 mg per ml 2 ml/\$0.61

DIBUCAINE (Nupercainal)
1% Ointment 28.35Gm/\$0.15

DIBUCAINE HCL (Nupercaine HCL)
1:200 (0.5%) 2 ml Ampul/\$0.31

DIBUCAINE HCL WITH DEXTROSE INJECTION (Nupercaine Heavy)
Contains: 20 ml/\$0.41
Dextrose.....5.00%
Dibucaine HCL.....0.25%

DICHLOROTETRAFLUOROETHANE, ANESTHETIC (Frigiderm)
227 Gm/\$0.68

DICHLORPHENAMIDE (Daranide)
50 mg 100/\$5.59

DICLOXACILLIN SODIUM MONOHYDRATE (Dynapen) (Veracillin) (Pathocil)
120 mg Capsule 100/\$10.34
250 mg Capsule 100/\$18.75
62.5 mg per 5 ml Oral Suspension 80 ml/\$1.33

Dicoumarol - See BISHYDROXYCOUMARIN

8930 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

DICYCLOMINE, DOXYLAMINE, AND PYRIDOXINE (Bendectin)

Each Tablet Contains: 100/\$4.36
 Dicyclomine HCL.....10 mg
 Doxylamine Succinate.....10 mg
 Pyridoxine HCL.....10 mg

DIENESTROL CREAM

0.01% Vaginal Cream With Applicator 78 Gm/\$1.48

DIETHYLCARBAMAZINE CITRATE USP (Hetrazan)

50 mg Tablets 100/\$1.40

DIETHYLPROPION HCL (Tenuate Dospan)

75 mg Sustained Release Tablets 100/\$10.80

DIETHYLSTILBESTROL USP (Stilbestrol)

0.1 mg Tablet 100/\$0.28
 0.5 mg Tablet 100/\$0.26
 5 mg Tablet 100/\$0.31
 25 mg Tablet 100/\$3.72

DIGITALIS USP

100 mg Tablet 100/\$0.22

DIGITOXIN (Crystodigin) (Purodigin)

0.2 mg per 1 ml Ampul 1 ml/\$0.14
 0.2 mg Tablet 100/\$0.31

DIGOXIN USP (Lanoxin)

0.25 mg Tablet 100/\$0.38
 0.25 mg Per ml Injection 2 ml/\$0.10
 0.25 mg Per ml Pediatric Elixir With Graduated Dropper 60 ml/\$0.31

DIHYDROERGOTAMINE MESYLATE (D.H.E. 45)

1 mg Per ml Injection 1 ml/\$0.50

DIIDOXYHYDROXYQUIN USP (Diodoquin)

650 mg Tablets 60/\$0.96

DIIDOXYHYDROXYQUIN COMPOUND (Floraquin)

100 mg Tablet 24/\$0.75

DIIDOXYHYDROXYQUIN, SULFADIAZINE, AND DIETHYLSTILBESTROL (Gynben)

Each Insert Contains: Box of 24/\$2.00
 Diethylstilbestrol.....0.1 mg
 Diiodohydroxyquin.....100.0 mg
 Sulfadiazine.....500.0 mg

Dilantin - See DIPHENYLHYDANTIN

Dilaudid - See HYDROMORPHONE HCL

DIMENHYDRINATE (Dramamine)

50 mg Tablets 100/\$2.43
 50 mg Per ml Injection 1 ml/\$0.31

DIMERCAPROL INJECTION (Bal)

10% Solution 5 ml/\$0.82

DIMETHYL TUBOCURARINE IODIDE NF (Metubine Iodide)

2 mg Per ml 20 ml/\$2.21

DIOCTYL CALCIUM SULFOSUCCINATE (Surfak)

240 mg Capsules 100/\$3.15

DIOCTYL SODIUM SULFOSUCCINATE (Doxinate)

20 mg per 5 ml Syrup 120 ml/
 50 mg per 5 ml Syrup 120 ml/

Diodoquin - See DIIDOXYHYDROXYQUIN

DIPHENHYDRAMINE HCL USP (Benadryl)

25 mg Capsule 100/\$0.57
 50 mg Capsule 100/\$0.33
 12.5 mg Per ml Elixir 120 ml/\$0.07
 50 mg Per ml Ampul 1 ml/\$0.18
 10 mg Per ml Vial 10 ml/\$0.31

DIPHENHYDRAMINE HCL, AMMONIUM CHLORIDE, CHLOROFORM, MENTHOL, AND SODIUM CITRATE SYRUP (Benylin Expectorant)

Each 5 ml Contains: 120 ml/\$0.37
 Alcohol.....5%
 Ammonium Chloride.....125 mg
 Chloroform.....20 mg
 Diphenhydramine HCL.....12.5 mg
 Menthol.....1 mg
 Sodium Citrate.....50 mg

8932 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

DIPHENOXYLATE HCL AND ATROPINE (Lomotil)

Each Tablet or 5 ml Liquid Contains:

Atropine Sulfate	0.025 mg	100/\$3.98
Diphenoxylate HCL	2.500 mg	59 ml/\$1.45

DIPHENYLHYDANTOIN (Dilantin)

50 mg Tablets	100/\$0.51
100 mg Capsules (Dilantin Sodium)	100/\$0.30
100 mg per 4 ml Oral Suspension	237 ml/\$0.46
250 mg for Injection (Dilantin Sodium)	250 mg/\$0.83

Dimetane - See BROMPHENIRAMINE MALEATE

Dimetapp - See BROMPHENIRAMINE, PHENYLEPHRINE, AND PHENYLPROPANOLAMINE

DIPHThERIA ANTITOXIN USP

20,000 Unit/\$3.16

DIPHThERIA TOXIN, DIAGNOSTIC USP (Schick Test)

10 Test/\$0.28

DIPYRONE (Pyralgin)

500 mg Per ml Injection 30 ml/\$2.96

DIPYRIDAMOLE (Persantin)

25 mg Tablet 100/\$4.60

DIRECT SKY BLUE INJECTION

4% Solution 5 ml/\$1.85

Disophrol Chronotab - See DEXBROMPHENIRAMINE AND PSEUDOEPHEDRINE

DISULFIRAM (Antabuse)

500 mg Tablets 100/\$8.00

Diuril - See CHLOROTHIAZIDE

DOBELL'S SOLUTION

Contains:	120 ml
Sodium Bicarbonate.....	3.0 Gm
Sodium Borate.....	3.0 Gm
Phenol, Liquified.....	0.6 ml
Glycerin.....	7.0 ml
Demineralized Water....qs.....	100.0 ml

Dolophine - See METHADONE HCL

Donnatal - See BELLADONNA ALKALOIDS WITH PHENOBARBITAL

Dopar - See LEVODOPA

Dopram - See DOXAPRAM HCL

Doriden - See GLUTETHIMIDE

Dornavac - See PANCREATIC DORNASE

DOXAPRAM HCL INJECTION (Dopram)
20 mg Per ml 20 ml/\$5.58

DOXEPIH HCL (Sinequan)
25 mg Capsule 100/\$10.26

Doxidan - See DANTHRON AND CALCIUM BIS-DIOCTYL

Doxinate - See DIOCTYL SULFOSUCCINATE (Doxinate)

Dramamine - See DIMENHYDRINATE

Drisdol - See ERGOCALCFEROL

Drixoral - See DEXBROMPHENIRAMINE AND PSEUODEPHEDRINE

DROPERIDOL (Inapsine)
2.5 mg Per ml Injection 2 ml/\$1.00
5 ml/\$1.56

Dulcolax - See BISACODYL

Dyclone - See DYCLONINE

DYCLONINE HCL (Dyclone)
1% Solution 30 ml/\$1.45

Dymelor - See ACETOHEXAMIDE

Dynapen - See DICLOXACILLIN SODIUM

ECHOTHIOPHATE IODIDE SOLUTION (Phospholine Iodide)

0.06% Ophthalmic	5 ml/\$1.57
0.125% Ophthalmic	5 ml/\$2.41
0.25% Ophthalmic	5 ml/\$2.15

Edocrin - See ETHACRYNATE SODIUM

Edrisal - See ASPIRIN, AMPHETAMINE SULFATE

EDROPHONIUM CL (Tensicon)

10 mg Per ml	10 ml/\$1.56
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Efudex - See FLUOROURACIL TOPICAL

Elavil - See AMITRIPTYLINE HCL

Elaste Ointment - See FIBRINOLYSIN AND DESOXYRIBONUCLEASE, COMBINED (BOVINE) OINTMENT

Eldoquin Cream - See HYDROQUINONE CREAM

ELECTROLYTE STERILE SOLUTION

Contains:	40 ml	
Potassium Gluconate.....	11.75 Gm	
Sodium Chloride.....	5.00 Gm	
Demineralized Water.....qs.....	100.00 ml	

EMETINE HCL USP

65 mg Per ml	1 ml/\$0.28
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Elixophyllin - See THEOPHYLLINE ELIXIR

Enovid - See NORETHYNODREL WITH MESTRANOL

Entex - See PHENYLEPHRINE, PHENYLPROPANOLAMINE, AND GLYCERYL GUAIACOLATE

Entozyme - See PEPSIN, PANCREATIN AND BILE SALTS

Enuclease - See TYLOXAPOL

EPHEDRINE HCL, PHENOBARBITAL, POTASSIUM IODIDE, AND THEOPHYLLINE
CALCIUM SALICYLATE SUSPENSION (Quadrinal)

Each 5 ml Contains: 120 ml/\$0.55
 Ephedrine HCL..... 12 mg
 Phenobarbital..... 12 mg
 Potassium Iodide..... 160 mg
 Theophylline Calcium Salicylate.... 65 mg

EPHEDRINE SULFATE

25 mg Capsules 100/\$0.20
 25 mg per 1 ml Ampul/\$0.07
 50 mg per 1 ml Ampul/\$0.10
 10 mg per 5 ml Syrup

Epinal - See EPINEPHRINE

EPINEPHRINE (Epinal)

0.5% Ophthalmic Solution 7.5 ml/\$2.21

EPINEPHRINE BITARTRATE (Medihaler-EPI)

0.3 mg per Measured Dose 15 ml/\$2.04

EPINEPHRINE BITARTRATE OPHTHALMIC (Mytrate)

2% Solution 15 ml/\$1.58

EPINEPHRINE HCL OPHTHALMIC (Glaucan)

2% Solution 10 ml/\$2.61

EPINEPHRINE INJECTION USP (Adrenalin)

1:1000 Solution, Ampul 1 ml/\$0.07
 1:1000 1 ml Cartridge-Needle Unit 1 ml/\$0.23
 1:100 per ml Solution 30 ml/\$0.39

EPINEPHRINE INJECTION, MODIFIED

1:2600 Solution 1 ml/

EPINEPHRINE SUSPENSION, STERILE

1:500 per ml In Oil 1 ml/\$0.10
 1:200 per ml (Sus-Phrine) 5 ml/\$0.23)

EPINEPHRYL BORATE OPHTHALMIC (Eppy)

1% Solution 7.5 ml/\$2.00

8936 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Eppy - See EPINEPHRYL BORATE OPHTHALMIC

Epsom Salt - See MAGNESIUM SULFATE

Equanil - See MEPROBAMATE

ERGOCALCIFEROL USP (Vitamin D2) (Drisdol)
6.25 mcg per Drop 50 ml/\$2.25

Ergomar - See ERGOTAMINE TARTRATE

ERGONOVINE MALEATE USP (Ergotrate)
0.2 mg Tablet 100/\$0.91

Ergotrate - See ERGONOVINE MALEATE

ERGOTAMINE TARTRATE
1 mg Tablet 100 (Gynergan)/\$1.86
2 mg Sublingual Tablet 12 (Ergomar)/\$2.48
0.5 mg per ml 1 ml Ampul (Gynergan)/\$0.27
2.5 ml Inhaler with Adapter (Medihaler Ergotamine)/\$4.32

ERGOTAMINE TARTRATE, BELLADONNA ALKALOIDS, CAFFEINE, PENTOBARBITAL AND
SUSPOSITORIES (Cafergot-PB) 12/\$3.48

Caffeine.....	100.00 mg
Ergotamine Tartrate.....	2.00 mg
Levorotatory Alkaloids of Belladonna...	0.25 mg
Pentobarbital.....	60.00 mg

ERGOTAMINE TARTRATE, BELLADONNA ALKALOIDS AND PHENOBARBITAL (Bellergal
Spacetabs)

Each Sustained Release Tablet Contains:	100/\$4.96
Ergotamine Tartrate.....	0.6 mg
Belladonna Alkaloids.....	0.2 mg
Phenobarbital.....	40.0 mg

ERGOTAMINE TARTRATE AND CAFFEINE (Cafergot)

Each Tablet Contains:	100/\$5.46
Caffeine.....	100 mg
Ergotamine Tartrate.....	1 mg

Erythrocin - See ERYTHROMYCIN ETHYLSUCCINATE

ERYTHROMYCIN USP (Erythrocin)

250 mg Tablets	100/\$2.67
1 Gm for Injection (As Lactobionate)	1 Gm/\$2.70

ERYTHROMYCIN ESTOLATE (Ilosone)

250 mg Capsules	100/\$4.87
125 mg per 5 ml Oral Suspension	60 ml/\$0.84
125 mg per 5 ml Oral Suspension	150 ml/\$1.68

ERYTHROMYCIN EHTYLSUCCINATE (Erythrocin)

200 mg Chewable Tablets	50/\$2.18
200 mg per 5 ml Oral Suspension	60 ml/\$0.74

Esidrex - See HYDROCHLOROTHIAZIDE

Estinyl - See ETHINYL ESTRADIOL

ESTRADIOL VALERATE INJECTION (Delestrogen)

10 mg per ml	5 ml/\$3.46
40 mg per ml	5 ml/\$8.50

ESTROGENIC SUBSTANCES, CONJUGATED (Premarin)

0.625 mg Tablets	100/\$1.14
1.25 mg Tablet	100/\$2.02
20 mg Vial for Injection	\$1.90

E.T.H. - See TERPIN HYDRATE ELIXIR

E.T.H. - See TERPIN HYDRATE AND CODEINE ELIXIR

ETHACRYNATE SODIUM (Edecrin)

Equivalent to 50 mg Ethacrynic Acid/\$2.41

ETHAMBUTOL HCL (Myambutol)

400 mg Tablets	100/\$9.10
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Ethanol - See ALCOHOL USP

8938 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

ETHINYL ESTRADIOL (Estinyl)

0.02 mg Tablets 100/\$0.86

ETHINYL ESTRADIOL AND DIMETHISTERONE (Oracon)

Each Pink Tablet Contains: 63/\$2.05

Dimethisterone.....25.0 mg

Ethinyl Estradiol..... 0.1 mg

Each White Tablet Contains:

Ethinyl Estradiol..... 0.1 mg

ETHIONAMIDE (Trecator)

250 mg Tablet 100/\$16.67

ETHOSUXIMIDE (Zarontin)

250 mg Capsule 100/\$2.60

ETHYNODIOL DIACETATE AND ETHINYL ESTRADIOL (Demulen)

Each Tablet Contains: 63/\$1.68

Ethinodiol Diacetate..... 1 mg

Ethinyl Estradiol.....50 mcg

ETHYNODIOL DIACETATE WITH MESTRANOL (Ovulen-21)

Each Tablet Contains: 63/\$1.35

Ethinodiol Diacetate.....1.0 mg

Mestranol.....0.1 mg

Eurax - See CROTAMITON

F

FACTOR IX COMPLEX (Human) (Konyne)

500 Units per 20 ml/\$36.47

FENTANYL CITRATE AND DROPERIDOL INJECTION (Innovar)

Each ml Contains:

Droperidol.....2.50 mg 2 ml/\$1.31

Fentanyl Citrate..... 0.05 mg 5 ml/\$2.75

FENTANYL CITRATE INJECTION (Sublimaze)

0.05 mg per ml Equivalent of Fentanyl 2 ml/\$0.83

FER-IN-SOL - See FERROUS SULFATE USP

Ferro Sequels - See FERROUS FUMARATE AND DIOCTYL SODIUM SULFOSUCCINATE

FERROUS FUMARATE AND DIOCTYL SODIUM SULFOSUCCINATE (Ferro-Sequels)

Each Sustained Release Capsule Contains: 100/\$2.01

Dioctyl Sodium Sulfosuccinate.....100 mg

Ferrous Fumarate.....150 mg

FERROUS SULFATE USP

324 mg Tablet 100/\$0.09

125 mg per ml Solution (FER-IN-SOL) 50 ml/\$0.30

Fibro-AHF - See FIBRINOGEN WITH ANTIHEMOPHLIC

FIBRINOGEN USP

2 Gram/

FIBRINOGEN WITH ANTIHEMOPHLIC FACTOR (Human) (Fibro-AHF)

1 Gm Vial 1 Gm/\$16.66

2 Gm Vial 2 Gm/\$32.34

FIBRINOLYSIN AND DESOXYRIBONUCLEASE, COMBINED (BOVINE) OINTMENT
(Elastin Ointment)

Contains: 30 Gm/\$3.13

Desoxyribonuclease.....20,000 Units

Fibrinolysin..... 30 Units

Filibon F.A. - See VITAMIN-MINERAL CAPSULES

8940 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Fiorinal - See BUTALBITAL, ASPIRIN, CAFFEINE, AND PHENACETIN

Flagyl - See METRONIDAZOLE

Flaxedil - See GALLAMINE TRIETHIODIDE

Fleet Enema - See SODIUM BIPHOSPHATE AND SODIUM PHOSPHATE

Floraquin - See DIIODOHYDROXYQUIN COMPOUND

Florinef - See FLUDROCORTISONE ACETATE

FLURAZEPAM HCL (Dalmane)
30 mg Capsule 100/\$4.85

FLUDROCORTISONE ACETATE (Florinef)
0.1 mg Tablet 100/\$1.60

FLUOCINOLONE ACETONIDE (Synalar)
0.025% Cream 15 Gm/\$1.18
0.01% Solution 20 ml/\$1.30
0.01 Cream 60 Gm

FLUORESCEIN SODIUM (Ful Glo)
Sterile Ophthalmic Applicator Strip 100/\$2.08

Fluorescite - See SODIUM FLUORSCEIN INJECTION

Fluoromar - See TRIFLUOROETHYL VINYL ETHER

5-FLUOROURACIL (5-Fu)
50 mg per ml Ampul 10 ml/\$0.76

FLUOROURACIL TOPICAL (Efudex)
2% Solution 10 ml/\$1.49
5% Solution 10 ml/\$2.13
5% Topical Cream 25 Gm/\$2.55

Fluothane - See HALOTHANE USP

FLUOXYMESTERONE (Halotestin)

5 mg Tablet	50/\$7.05
10 mg Tablet	50/\$11.02

FLUPHENAZINE ENANTHATE (Prolixin)

25 mg per ml Injection	5 ml/\$6.65
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FLUPHENAZINE HCL (Prolixin)

5 mg Tablet	100/\$6.30
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FLURANDRENOLONE (Cordran)

0.05% Cream	15 Gm Tube/\$1.02
0.05% Cream	225 Gm Jar/\$11.00
0.05% Lotion	15 ml/\$1.35
Occulsive Tape	Roll/\$3.96

FLUROTHYL (Indoklon)

2 ml Ampuls	\$5.00
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FOLIC ACID (Folvite)

5 mg Tablets	100/\$0.76
15 mg per ml	10 ml/\$1.46

Folinic Acid - See CALCIUM LEUCOVORIN

Folvite - See FOLIC ACID

FOOT POWDER, FUNGICIDAL (Desenex)

28.35 Gm	\$0.09
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FORMALIN SOLUTION, BUFFERED NEUTRAL

Contains:	1000 ml
Formalin 37%.....	100 ml
Sodium Phosphate, Monobasic....	4 Gm
Sodium Phosphate, Dibasic.....	6.5 Gm
Demineralized Water.....qs.....	1000 ml

Fostex - See HEXACHLOROPHENE, SALICYLIC ACID AND SULFUR

Fostril - See SULFUR, HEXACHLOROPHENE AND POLYOXYETHYLENE LAURAL ETHER CREAM

8942 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Frei Antigen - See ANTIGEN, LYMPHOGRANULOMA VENEREUM

Frigiderm - See DICHLOROTETRAFLUOROETHANE

5-Fu - See 5-FLUOROURACIL

Fuadin - See STIBOPHEN INJECTION

Ful-Glo - See SODIUM FLUORESCIN STRIPS

Fungizone - See AMPHOTERICIN B

Furacin Solution - See NITROFURAZONE TOPICAL SOLUTION

Furacin Soluble Dressing - See NITROFURAZONE OINTMENT

Furacin Urethral Inserts - See NITROFURAZONE AND DIPERODON HCL

Furacin Vaginal - NITROFURAZONE SUPPOSITORIES

Furantin - See NITROFURANTIN

FURAZOLIDONE (Furoxone)

100 mg Tablet

100/\$11.09

FURAZOLIDONE AND NIFUROXIME SUPPOSITORY NF (Tricofuron)

Each Suppository Contains: (With Applicator) 24/\$1.86

20-Dendro Palmitic Acid..... 13.800%

Furazolidone..... 0.250%

Lactic Acid..... 0.050%

Nifuroxime..... 0.375%

Polyethylene Glycol 1000..... 85.525%

FUROSEMIDE (Lasix)

40 mg Tablet

100/\$5.47

10 mg per ml Injection

2 ml/\$0.80

Furoxone - See FURAZOLIDONE

G

GALLAMINE TRIETHIODIDE (Flaxedil)
20 mg per ml Injection 10 ml/\$1.03

GAMMA BENZENE HEXACHLORIDE (Kwell)
1% Ointment 60 Gm/\$0.24

Gamma Globulin - See GLOBULIN, IMMUNE SERUM

Gantrisin - See SULFISOXAZOLE

Gantrisin Pediatric Suspension - See ACETYL SULFISOXAZOLE

Garamycin - See GENTAMICIN SULFATE

Gelusil - See ALUMINUM HYDROXIDE GEL AND MG TRISILICATE

Gelusil M - See ALUMINUM HYDROXIDE GEL AND MG TRISILICATE

GENTAMICIN SULFATE (Garamycin)
40 mg per ml Injection 2 ml/\$4.41
3 mg per ml Ophthalmic Solution 5 ml/\$1.50

GENTIAN VIOLET
1% Solution 30 ml/\$0.18

GENTIAN VIOLET AND BENZALKONIUM CL (Hyva)
Each Vaginal Tablet Contains: 12/\$0.85
Benzalkonium Cl.....0.5 mg
Gentian Violet.....1.0 mg

Geopen - See CARBENICILLIN

GERMICIDAL, FUNGICIDAL, VIRUCIDAL (Tergisyl)
Contains: 30 Gm/\$0.19
Potassium O-Benzyl-P-Chlorophenate..... 7.57%
Tetrasodium Ethylene Diamine Tetraacetate..... 2.00%

Glauccon - See EPINEPHRINE HCL OPHTHALMIC

GLOBULIN, IMMUNE SERUM USP (Gamma Globulin)
10 ml/\$4.75

8944 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

GLOBULIN, TETANUS IMMUNE USP (Hyper-Tet)
250 Unit Vial ml/\$4.82

GLOBULIN ZINC INSULIN

GLUBIONATE CALCIUM (Neo-Calglucon Syrup)
Each 4 ml Contains: 120 ml/\$0.70
Glubionate Calcium..... 1.395 Gram

GLUCAGON FOR INJECTION
1 mg Ampul 1 mg/\$1.55

GLUCOSE TEST SOLUTION, CARBONATED (Dextrose 100)
100 Gm per 266 ml Bottle 266 ml/\$0.28

GLUTAMIC ACID CAPSULES (Acidulin)
324 mg Capsules 100/\$7.82

GLUTARALDEHYDE SOLUTION (Cidex)
2% 1 Gal/\$6.17

Glutavene - See MONOSODIUM-L-GLUTAMATE

GLUTETHIMIDE (Doriden)
500 mg Tablet 100/\$1.85

GLYCERIN USP
Suppository, Rectal Infant 12/\$0.31
Suppository, Rectal Adult 12/\$0.36
Sterile Ophthalmic Solution (Ophthalgan) 7.5 ml/\$1.73

GLYCERIN AND HYDROGEN PEROXIDE OTIC DROPS
Contains: 30 ml
Glycerin.....50%
Hydrogen Peroxide 3%..50%

GLYCERYL GUAIACOLATE
300 mg Capsules 100/\$1.48

GLYCERYL GUAIACOLATE AND DEXTROMETHORPHAN (Cough Calmers)
Each Lozenge Contains: 16/\$0.55
Dextromethorphan..... 7.5 mg
Glyceryl Guaiacolate.....50.0 mg

GLYCERIN
50% Oral Solution (Osmoglyn) 180 ml/\$1.25

GLYCERYL GUAIACOLATE SYRUP (Robitussin)
 100 mg per 5 ml 120 ml/\$0.15

GLYCERYL GUAIACOLATE SYRUP, PEDIATRIC
 Each 5 ml Contains: 120 ml
 Glyceryl Guaiacolate.....20 mg

GLYCOPYRROLATE (Robinul)
 1 mg Tablet 100/\$2.51

GOLD SODIUM THIOMALATE (Myochrysine)
 50 ml per ml Injection 10 ml/\$5.80

Grifulvin V - See GRISEOFULVIN

GRISEOFULVIN
 500 mg Tablets (Grifulvin V) 100/\$4.04
 250 mg per 5 ml Oral Suspension 120 ml.\$2.93

Gonioscopic - See METHYLCELLULOSE

GUAIAIC TEST SOLUTION
 Contains: 30 ml
 Guaiac Reagent..... 0.5 Gm
 Alcohol USP.....qs.....30.0 ml

GUANETHIDINE SULFATE USP (Ismelin)
 10 mg Tablet 100/\$4.09
 25 mg Tablet 100/\$5.80

Gynben - See DIIDODHYDROXYQUIN, SULFADIAZINE, AND DIETHYLSTILBESTROL

Gynergan - See ERGOTAMINE TARTRATE

Haldol - See HALOPERIDOL

HALOPERIDOL (Haldol)

2 mg Tablets	100/\$8.70
2 mg per ml Oral Suspension	120 ml/\$15.38

Halotestin - See FLUOXYMESTERONE

HALOTHANE USP (Fluothane)

125 ml Bottle/\$17.70

HEAT RASH LOTION

Contains:	120 ml
Corn Starch.....	20 Gm
Zinc Oxide.....	20 Gm
Glycerin.....	10 ml
Lime Water.....qs.....	100 ml

Hema-Combistix - See TEST STRIPS AND COLOR CHARTS, URINARY BLOOD, GLUCOSE, PROTEIN, AND PH

Hemofil - See ANTIHEMOPHLIC FACTOR (HUMAN)

HEMORRHOIDAL SUPPOSITORIES (Anusol)

Each Suppository Contains:	12/\$0.29
Bismuth Resorcin Compound.....	1.75%
Bismuth Subgallate.....	2.25%
Boric Acid.....	5.00%
Nicarasan Balsam.....	3.00%
Theobroma Oil Base.....	77.00%
Zinc Oxide.....	11.00%

HEMORRHOIDAL SUPPOSITORIES WITH HYDROCORTISONE (Wyanoids-HC)

Each Suppository Consists of:	12/\$1.56
Balsam Peruvian.....	30 mg
Belladonna Extract.....	15 mg
Bismuth Oxyiodide.....	30 mg
Bismuth Subcarbonate.....	146 mg
Boric Acid.....	543 mg
Cocoa Butter Base.....(Approx).....	2,000 mg
Ephedrine Sulfate.....	3 mg
Hydrocortisone Acetate.....	10 mg
Zinc Oxide.....	176 mg

HEPARIN SODIUM USP

10 mg (1000 USP Units) per ml 10 ml/\$0.39
 200 mg (20,000 USP Units) per ml 2 ml/\$0.75

HEPTAVITAMIN TABLET (Multivitamin)

Each Tablet Contains: 100/\$0.66

Ascorbic Acid.....300.0 mg
 Calcium Pantothenate..... 20.0 mg
 Cyanocobalamin..... 4.0 mcg
 Niacinamide.....100.0 mg
 Pyridoxine HCL..... 2.0 mg
 Riboflavin..... 10.0 mg
 Thiamine Mononitrate..... 10.0 mg

HERPES LOTION

Contains: 60 ml

Menthol..... 2.5 Gm
 Camphor..... 2.5 Gm
 Phenol..... 2.5 ml
 Glycerin.....12.0 ml
 Benzoin Tincture Compound,12.0 ml
 Alcohol USP.....qs.....250.0 ml

Herplex - See IDOXURIDINE AND POLYVINYL

Hetrazan - See DIETHYLCARBAMAZINE CITRATE

HEXACHLOROPHENE, SALICYLIC ACID, AND SULFUR CAKE (Fostex)

Consists of: 106.3 Gm/\$0.54

Hexachlorophene..... 1%
 Salicylic Acid..... 2%
 Soap.....95%
 Sulfur..... 2%

HEXACHLOROPHENE, SALICYLIC ACID, AND SULFUR OINTMENT (Fostex)

Consists of: 127.6 Gm/\$1.16

Hexachlorophene..... 1%
 Ointment Base.....95%
 Salicylic Acid..... 2%
 Sulfur, Micropulverized..... 2%

8948 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

HEXAFLUORENIUM BROMIDE (Mylaxen)

20 mg per ml	10 ml/\$6.88
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HEXYLCAINE HCL (Cyclaine)

5% Topical Solution	60 ml/\$1.50
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HEXYLRESORCINOL PILLS NF (Crystoids)

200 mg Pill	5/\$0.29
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Hetrazan - See DIETHYLCARBAMAZINE

Histalog - See BETAZOLE HCL

HISTAMINE PHOSPHATE INJECTION USP

1 mg per ml	1 ml/\$0.07
2.75 mg in 5 ml	5 ml/\$0.32

HISTOPLASMIN USP

HOMATROPINE HYDROBROMIDE

2% Ophthalmic Solution	15 ml/\$0.26
5% Ophthalmic Solution	15 ml/\$0.31

Humorsol - See DEMECARIUM BROMIDE

HYALURONIDASE FOR INJECTION (Wydase)

150 Unit Vial	150 Unit/\$0.17
1500 Unit Vial	1500 Unit/\$1.75

Hydeltasol - See PREDNISOLONE PHOSPHATE

Hydeltro TBA - See PREDNISOLONE TERTIARY BUTYLACETATE

HYDERGINE

Each Sublingual Tablet Contains: 100/\$6.70

Dihydroergocornine Methanesulfonate.....	0.167 mg
Dihydroergocristine Methanesulfonate.....	0.167 mg
Dihydroergokryptine Methanesulfonate.....	0.167 mg

HYDRALAZINE HCL (Apresoline)

25 mg Tablet	100/\$1.45
20 mg per ml	1 ml/\$0.40

HYDRIOTIC ACID SYRUP

HYDROCHLOROTHIAZIDE (Oretic) (Esidrex) (Hydrodiuril)

50 mg Tablet	100/\$0.70
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HYDROCORTISONE USP (Cortef) (Cortril)

20 mg Tablet	100/\$1.42
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HYDROCORTISONE ACETATE SUSPENSION, STERILE USP (Cortril) (Cortef)

25 mg per ml Injection	5 ml/\$0.47
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HYDROCORTISONE CREAM

0.5% Cream	28.35 Gm/\$0.32
1% Cream	28.35 Gm/\$0.40

HYDROCORTISONE 1% in LUBRA LOTION

240 ml	
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HYDROCORTISONE SODIUM SUCCINATE FOR INJECTION USP (Solu-Cortef)

100 mg Hydrocortisone	100 mg/\$1.38
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HYDROCORTISONE SUSPENSION (Cortenema)

100 mg Disposable Enema Unit	60 ml/\$1.23
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Hydrodiuril - See HYDROCHLOROTHIAZIDE

HYDROGEN PEROXIDE SOLUTION USP

3% Solution	453.6 Gm/\$0.18
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HYDROQUINONE CREAM (Eldoquin Cream)

Contains:	60 Gram
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Hydroquinone.....	2.00%
Alcohol USP.....	8.57%
Demineralized Water.....	2.00%
Water Soluble Ointment Base..	87.43%

8950 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

HYDROMORPHONE HCL INJECTION NF (Dilaudid)
2 mg Cartridge-Needle Unit 1 ml/\$0.25

HYDROXYCHLOROQUINE SULFATE (Plaquenil)
200 mg Tablets 100/\$6.12

HYDROXYPROGESTERONE CAPROATE (Delalutin)
250 mg per ml 5 ml/\$5.24

HYDROXYPROGESTRONE CAPROATE WITH ESTRADIOL VALERATE (Deluteval 2X)
Each ml Contains: 5 ml/\$6.50
Estradiol Valerate..... 5 mg
Hydroxyprogesterone Caproate.....250 mg

HYDROXYZINE HCL (Atarax)
50 mg per ml Injection 10 ml/\$3.40
2 mg per ml Syrup 120 ml/\$0.55
10 mg Tablet 100/\$1.51
25 mg Tablet 100/\$3.25

HYDROXYZINE PAMOATE (Vistaril)
50 mg Capsules 100/\$3.60

Hygroton - See CHLORTHALIDONE

Hykinone - See MENADIONE

Hyoscine - See SCOPOLAMINE HYDROBROMIDE

Hypaque Sodium - See SODIUM DIATRIZOATE INJECTION

HYPERALIMENTATION KIT
Contains: \$9.35
10% Hyprotigen (Modified Protein Hydrolysate Injection).500 ml
50% Dextrose in Water.....500 ml

Hyper-Tet - See GLOBULIN, TETANUS IMMUNE

Hyva - See GENTIAN VIOLET AND BENZALKONIUM CL

IDOXURIDINE AND POLYVINYL ALCOHOL OPHTHALMIC SOLUTION (Herplex)

Consists of: 15 ml/\$1.90
 Idoxuridine..... 0.1%
 Polyvinyl Alcohol..... 1.4%

IDOXURIDINE OPHTHALMIC (Stoxil)

0.5% Ointment 4 Gm/\$2.28

Iletin - See INSULIN INJECTION USP

Ilopan - See DEXPANTHENOL INJECTION

Ilosone - See ERYTHROMYCIN ESTOLATE

Imferon - See IRON DEXTRAN INJECTION USP

IMIPRAMINE HCL NF (Tofranil)

25 mg Tablet 100/\$4.79

Inapsine - See DROPERIDOL

Inderal - See PROPRANOLOL HCL

Indigo Carmine - See SODIUM INDIGOTINDISULFONATE INJECTION

Indocin - See INDOMETHACIN

Indoklon - See FLUROTHYL

INDOMETHACIN (Indocin)

25 mg Capsules 100/\$6.27

INH - See ISONIAZID

Innovar - See FENTANYL CITRATE AND DROPERIDOL

INSECT BITE KIT

Contains:

- 2 - Diphenhydramine HCL Capsules 50 mg (Benadryl)
- 1 - Epinephrine Bitrate Oral Inhalant 10 ml (Medihaler-Epi)
- 1 - Epinephrine Injection 1:1000 1 ml
- 1 - Tourniquet, Rubber

8952 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

INSECTICIDE, LINDANE, POWDER, DUSTING
2 oz.

INSULIN GLOBULIN ZINC (Globulin Zinc)
40 USP Units per ml 10 ml/\$0.94

INSOLIN INJECTION USP (Iletin)
40 USP Units per ml 10 ml/\$0.43
80 USP Units per ml 10 ml/\$0.70

INSULIN, ISOPHANE SUSPENSION USP (NPH Insulin)
40 USP Units per ml 10 ml/\$0.38
80 USP Units per ml 10 ml/\$0.64

INSULIN, PROTAMINE ZINC SUSPENSION (PZI Insulin)
40 USP Units per ml 10 ml/\$0.61

INSULIN ZINC SUSPENSION EXTENDED (Ultralente)
40 USP Units per ml 10 ml/\$0.66
80 USP Unit per ml 10 ml/\$1.26

INSULIN ZINC SUSPENSION PROMPT (Semilente Insulin)
40 USP Units per ml 10 ml/\$0.66
80 USP Units per ml 20 ml/\$1.26

INSULIN ZINC SUSPENSION ON USP (Lente Insulin)
40 USP Units per ml 10 ml/\$0.58
80 USP Units per ml 10 ml/\$0.61

Imuran - See AZATHIOPRINE

IODINE SOLUTION, STRONG (Lugol's Solution)
Contains: 30 ml
Iodine..... 5%
Potassium Iodide....10%

IODINE TINCTURE, USP
2% 59 ml/\$0.31

IODIZED OIL, NF (Lipiodol)
20 ml/\$1.60

IODOCHLORHYDROXYQUIN CREAM (Vioform)		
Consists of:	30 Gram Jar	
Iodochlorhydroxyquin.....	3%	
Washable Cream Base.....	97%	
IODOCHLORHYDROXYQUIN AND HYDROCORTISONE CREAM (Vioform-HC)		
Consists of:	28.35 Gram Tube/\$0.53	
Hydrocortisone, Micronized.....	1.0%	
Iodochlorhydroxyquin.....	3.0%	
Washable Cream Base.....	96.0%	
IOPANOIC ACID TABLET USP (Telepaque)		
500 mg Tablet	6/\$0.35	
IPECAC SYRUP USP		
30 ml/\$0.26		
IRON DEXTRAN INJECTION USP (Imferon)		
50 mg of Iron per ml	10 ml/\$2.13	
Ismelin - See GUANETHIDINE SULFATE		
ISOMETHEPTENE, DICHLORALPHENAZONE, AND ACETAMINOPHEN (Midrin)		
Each Capsule Contains:	100/\$9.60	
Acetaminophen.....	325 mg	
Dichloralphenazone.....	100 mg	
Isometheptene Mucate.....	65 mg	
ISONIAZID TABLETS (Nydrazid) (INH)		
100 mg Tablet	100/\$0.21	
300 mg Tablet	100/\$1.00	
50 mg per 5 ml Syrup	120 ml/\$0.45	
100 mg per ml Injection	10 ml/\$1.47	
ISOPROPYL RUBBING ALCOHOL NF		
70%	1000 ml	
ISOPROTERENOL HCL (Isuprel)		
10 mg Sublingual Glosset	100/\$2.78	
15 mg Tablets Sustained Release (Proteranol)		100/\$2.32
30 mg Tablet Sustained Release (Proteranol)		100/\$3.60
1:200 Solution for Inhalation	10 ml/\$0.50	
0.2 mg per ml Injection	1 ml/\$0.28	

8954 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

ISOPROTERENOL HCL AND PHENYLEPHRINE BITARTRATE (Medihaler-Duo)

Each ml Contains: 22.5 ml/\$2.25

Isoproterenol HCL.... 4 mg

Phenylephrine Bitartrate.... 6 mg

ISOPROTERENOL SULFATE (VAPO-N-ISO)

2 mg per ml Aerosol Inhaler 15m/\$2.17

ISOPROTERENOL SULFATE INHALATION, NONAQUEOUS (Medihaler-ISO)

2 mg per ml 15 ml/\$1.32

Isordil - See ISOSORBIDE DINITRATE

ISOSORBIDE DINITRATE (Isordil)

5 mg Tablet, Sublingual 100/\$2.25

10 mg Tablet 100/\$2.40

40 mg Tablet Sustained Release (Isordil Tembids) 100/\$6.47

Isopto-Alkaline - See METHYLCELLULOSE

Isopto Carbachol - See CARBACHOL

Isopto-Carpine - See PILOCARPINE HCL

Isopto Cetamide - See SODIUM SULFACETAMIDE OPHTHALMIC

ISOXSUPRINE HCL (Vasodilan)

10 mg Tablets 100/\$2.92

5 mg per ml Injection 2 ml/\$0.50

Isuprel - See ISOPROTERENOL HCL

K

Kafocin - See CEPHALOGLYCIN DIHYDRATE

KANAMYCIN SULFATE INJECTION USP (Kantrex)

75 mg per 2 ml (Pediatric) 2 ml/\$1.41

1 Gm per 3 ml 3 ml/\$3.16

Kantrex - See KANAMYCIN SULFATE

KAOLIN AND PECTIN AND PAREGORIC

Contains: 120 ml

Kaolin and Pectin Mixture.....50%

Paregoric.....50%

KAOLIN AND PECTIN MIXTURE, DEHYDRATED (Kaopectate)

Each 30 ml Contains: 160 ml/\$0.32

Kaolin.....6.00 Gm

Pectin.....0.12 Gm

Kaopectate - See KAOLIN AND PECTIN MIXTURE

KARAYA GUM

3 1/2 oz Plastic Squeeze Bottle/\$1.50

Karidium - See SODIUM FLUORIDE

Kayexalate - See SODIUM POLYSTYRENE SULFONATE

Keflex - See CEPHALEXIN MONOHYDRATE

Keflin - See SODIUM CEPHALOTHIN FOR INJECTION

Kemadrin - See PROCYCLIDINE HCL

Kenalog - See TRIAMCINOLONE ACETONIDE AQUEOUS SUSPENSION

Kenalog Cream - See TRIAMCINOLONE ACETONIDE CREAM

Kenalog in Orabase - See TRIAMCINOLONE ACETONIDE PASTE, ORAL

Kenalog Ointment - TRIAMCINOLONE ACETONIDE

8956 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Kenalog Spray - See TRIAMCINOLONE ACETONIDE SOLUTION

KEROHYDRIC EMOLLIENT (Lowila Emollient)
62.5 Gram/\$0.96

Ketaject - See KETAMINE HCL

Ketalar - See KETAMINE HCL

KETAMINE HCL (Ketaject) (Ketalar)
10 mg per ml 20 ml/\$1.67
50 mg per ml 10 ml/\$3.41

Ketostix - see TEST STRIPS AND COLOR CHART, KETONE IN URINE

Kondremul - See MINERAL OIL HEAVY WITH IRISH MOSS

Konyne - See FACTOR IX COMPLEX (HUMAN)

K-Powder - See POTASSIUM GLUCONATE POWDER

K-THERMIA SOLUTION

Contains:	2 1/2 Gal
Alcohol USP.....	844 ml
Antimony Potassium Tartrate.....	2 Gm
Demineralized Water.....qs.....	4000 ml

Kwell - See GAMMA BENZENE HEXACHLORIDE

K-Y Jelly - See LUBRICANT SURGICAL

L

LACTIC ACID CREAM 3%
60 Gram

LACTOBACILLUS ACIDOPHILUS CAPSULES (Bacid)
100/\$3.50

LACTOBAMATE CAPSULES (Placebo Capsules)

LACTOSE USP

LANOLIN, ANHYDROUS USP (Wool Fat)
453.6 Gram/\$0.73

LANOLUBE OINTMENT

Contains:	30 Gram
White Petrolatum.....	56.4 Gm
Anhydrous Lanolin.....	10.0 Gm
Camphor.....	0.3 Gm
Mineral Oil USP.....	33.3 ml

Lanoxin - See DIGOXIN

Largon - See PROPIOMAZINE HCL

Larodopa - See LEVODOPA

Lasix - See FUROSEMIDE

Lassar's Paste - See ZINC OXIDE PASTE USP

LCD - See COAL TAR SOLUTION

Lente Insulin - See INSULIN ZINC SUSPENSION

Leukeran - See CHLORAMBUCIL

LEVALLORPHAN TARTRATE INJECTION NF (Lorfan)
1 mg per ml 1 ml/\$0.35

LEVARTERENOL BITARTRATE INJECTION USP (Levophed)
0.2% Solution 4 ml/\$0.41

8958 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

LEVODOPA (Lardopa) (Dopar) (Levopa) (Bendopa)
 250 mg Tablet 100/\$6.24
 500 mg Tablet 100/\$12.00

Levopa - See LEVODOPA

Levophed - See LEVARTERENOL BITARTRATE INJECTION USP

Levoprome - See METHOTRIMEPAZINE

LIDOCAINE HCL (Xylocaine)

5% Solution with 7.5% Glucose	2 ml Ampul	2 ml/\$0.32
1.5% Solution with 1:200,000 Epinephrine	30 ml Ampul	30 ml/\$0.56
1.5 Solution	20 ml Ampul	20 ml/\$0.70
2% Solution	10 ml Ampul	10 ml/\$0.33
1% Solution	30 ml Ampul	30 ml/\$0.70
1% Solution with 1:200,000 Epinephrine	30 ml Ampul	30 ml/\$0.70
2% Solution	20 ml Vial	20 ml/\$0.31
1% Solution	50 ml Vial	50 ml/\$0.38
1% Solution with 1:200,000 Epinephrine	20 ml Vial	20 ml/\$0.40
0.5% Solution	50 ml Vial	50 ml/\$0.36
2% Viscous Solution		100 ml/\$1.50
2% Jelly		30 ml/\$0.47
2% Solution (Anestacon)		15 ml/\$0.68
5% Ointment		35 Gm/\$0.40
4% Topical Solution		50 ml/\$1.90

Lincocin - See LINCOMYCIN HCL

LINCOMYCIN HCL (Lincocin)

300 mg per ml Injection	10 ml/\$4.77
250 mg per 5 ml Syrup	120 ml/\$3.91

Lipiodol - See IODIZED OIL

Lipomul Oral - See CORN OIL SUSPENSION

Liquifilm - See POLYVINYL ALCOHOL OPHTHALMIC

Liquor-Carbonis Detergens - See COAL TAR SOLUTION

Lithane - See LITHIUM CARBONATE

LITHIUM CARBONATE (Lithane)
300 mg Tablets 100/\$2.14

LIVER INJECTION NF
Each ml Equivalent to 10 mcg of Cyancobalmin 10 ml/\$0.60

LIVER INJECTION CRUDE
Each ml Equivalent to 2 mcg of Cyanocobalmin 10 ml/\$0.32

Lofenalac - See LOW PHENYLANINE FOOD

Lomotil - See DIPHENOXYLATE AND ATROPINE

Lordine - See CEPHALORIDINE FOR INJECTION

Lorfan - See LEVALLORPHAN TARTRATE INJECTION

LOW PHENYLANINE FOOD (Lofenalac) 2 1/2 lb Can/\$0.85

Lowila - See KEROHYDRIC EMOLLIENT

Lubasporin Urethral - See POLYMYXIN B SULFATE AND BENZALKONIUM CHLORIDE

LUBRA LOTION
Contains: 240 ml
Deminearlized Water..... 68.75%
Water Soluble Ointment Base.... 31.25%

Lubricating Jelly - See LUBRICANT SURGICAL

LUBRICANT SURGICAL (K-Y Jelly) (Lubricating Jelly)
113.4 Gram/\$0.18

Lugol's Solution - See IODINE SOLUTION, STRONG

LYPRESSIN (Diapid)
50 USP Posterior Pituitary Units per ml 5 ml/\$3.00

8960 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Maalox - See ALUMINUM HYDROXIDE GEL AND MAGNESIUM HYDROXIDE

Macrochantin - See NITROFURANTOIN MACROCRYSTALS

MAGNESIUM CITRATE (Citraate of Magnesia)
12 oz Bottle/\$0.27

MAGNESIUM OXIDE
600 mg Tablet 100/\$1.25

MAGNESIUM SULFATE (Epsom Salt)
Crystals 2.5 lb/\$0.72
10% Injection 20 ml/\$0.50
50% Injection 2 ml/\$0.97

MAFENIDE ACETATE (Sulfamylon)
8.5% Cream 453.6 Gram/\$6.69

MANNITOL INJECTION NF
25% Solution 50 ml/\$0.74

Marax - THEOPHYLLINE, EPHEDRINE SULFATE AND HYDROXYZINE

Matulane - See PROCARBAZINE HCL

Maxidex - See DEXAMETHISONE

Mebaral - See MEPHOBARBITAL

MECHLORETHAMINE HCL INJECTION (Mustargen) (Nitrogen Mustard)
10 mg Vial 10 ml/\$1.55

Mecholyl - See METHACHOLINE CHLORIDE

MECLIZINE AND PYRIDOXINE SOLUTION (Bonodoxine)
Each ml Contains: 30 ml
Meclizine HCL..... mg/\$8.33
Pyridoxine HCL..... mg/\$16.66

MECLIZINE HCL (Bonine)
25 Tablet Chewable 100/\$2.50

Medihaler-Duo - See ISOPROTERENOL HCL AND PHENYLEPHRINE

Medihaler-Epi - See EPINEPHRINE BITARTRATE

Medihaler-Ergotamine - See ERGOTAMINE TARTRATE

Medihaler-ISO - See ISOPROTERENOL SULFATE

Medrol - See METHYLPREDNISOLONE

MEDROXYPROGESTERONE ACETATE USP (Provera) (Depo-Provera)

10 mg Tablets 100/\$9.42

50 mg per ml Suspension for Injection 5 ml/\$3.39

MEGLUMINE IOTHALAMATE INJECTION (Conray)

60% 30 ml/\$1.34

Mellaril - See THIORIDAZINE HCL

MELPHALAN (Alkeran)

2 mg Tablets 100/\$7.66

MENADIONE (Hykinone) (Vitamin K-3)

2 mg Tablet 100/\$0.19

2 mg per ml Injection (Sodium Bisulfate) 1 ml/\$0.11

MENOTROPINS (Pergonal)

Each Ampul Contains: \$11.46

75 I.U. FSH

75 I.U. LH

MEPERIDINE HCL NF (Demerol)

50 mg Tablet 100/\$1.57

50 mg per ml Injection 30 ml Vial 30 ml/\$0.59

50 mg per ml Cartridge-Needle Unit, 1 ml 1 ml/\$0.18

50 mg per ml Cartridge-Needle Unit, 1 ml in 2 ml size 1 ml/\$0.18

75 mg per ml Cartridge-Needle Unit, 1 ml 1 ml/\$0.20

75 mg per ml Cartridge-Needle Unit, 1 ml in 2 ml size 1 ml/\$0.20

100 mg per ml Cartridge-Needle Unit, 1 ml 1 ml/\$0.22

100 mg per ml Cartridge-Needle Unit, 1 ml in 2 ml size 1 ml/\$0.22

8962 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

MEPERIDINE HCL AND PROMETHAZINE HCL (Mepergan)
Each ml in Cartridge-Needle Unit Contains: 2 ml/\$0.59
Meperidine HCL..... 25 mg
Promethazine HCL..... 25 mg

Mepergan - See MEPERIDINE HCL AND PROMETHAZINE HCL

MEPHENTERMINE SULFATE INJECTION (Wyamine)
30 mg per ml 1 ml/\$0.39

MEPHOBARBITAL (Mebaral)
32 mg Tablet 100/\$0.30

MEPIVACAINE HCL INJECTION (Carbocaine)
1% Solution 50 ml/\$0.58

MEPROBAMATE TABLETS (Miltown) (Equanil)
400 mg Tablet 100/\$0.53

MERALLURIDE INJECTION (Mercuhydrin)
1 ml Ampul 1 ml/\$0.18

MERCAPTOMERIN SODIUM INJECTION (Thiomerin)
1.4 Gram Vial 1.4 Gram/\$0.95

6-MERCAPTOPURINE (Purinethol)
50 mg Tablet 100/\$1.00

Mercuhydrin - See MERALLURIDE

MERCURY, ANALYZED REAGENT
453.6 Gram/\$3.99

MERCURY CYANIDE (Antiseptic No. 3)
Tablets 100/\$5.07

Merthiolate - See THIMEROSAL

MESORIDAZINE BESYLATE (Serentil)

10 mg Tablets	100/\$3.80
25 mg Tablets	100/\$5.12
50 mg Tablets	100/\$5.76
100 mg Tablets	100/\$7.04
25 mg per 1 ml Ampul	1 ml/\$0.32

Mestinon - See PYRIDOSTIGMINE BROMIDE

Metamucil - See PSYLLIUM HYDROPHILIC MUCILLOID

Metandren - See METHYLTESTOSTERONE

METARAMINOL BITARTRATE (Aramine)

10 mg per ml	10 ml/\$0.72
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METHACHOLINE CHLORIDE (Mechoyl)

25 mg Ampul	\$0.72
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METHADONE .HCL (Dolophine)

5 mg Tablet	100/\$0.79
10 mg Ampul	1 ml/\$0.20

METHAMPHETAMINE AND PHENOBARBITAL (Ambar)

Each Sustained Release Tablet Contains:

Ambar No 1.	100/\$2.85
Methamphetamine.....	10 mg
Phenobarbital.....	65 mg
Ambar No 2.	100/\$3.60
Methamphetamine.....	15 mg
Phenobarbital.....	65 mg

METHANTHELINE BROMIDE INJECTION (Banthine)

50 mg Vial	1 ml/\$0.90
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METHAQUALONE (Quaalude)

300 mg Tablet	100/\$3.52
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8964 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

METHENAMINE MANDELATE (Mandelamine)

500 mg per 5 ml Oral Suspension	240 ml/\$2.40
250 mg Tablet	100/\$1.08
500 mg Tablet	100/\$2.40
1 Gm Tablet	100/\$3.72

Methergine - See METHYLERGONOVINE MALEATE

METHICILLIN SODIUM (Staphcillin)

1 Gram Vial	1 Gram/\$0.81
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METHIMAZOLE (Tapazole)

5 mg Tablet	100/\$0.36
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METHOCARBAMOL (Robaxin)

100 mg per ml	10 ml Ampul/\$0.80
500 mg Tablets	100/\$6.60

METHOTREXATE

2.5 mg Tablet	100/\$5.37
50 mg Vial	50 mg/\$4.31

METHOTRIMEPRAZINE (Levoprome)

20 mg per ml Injection	20 ml/\$3.00
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METHOXAMINE HCL INJECTION (Vasoxyl)

10 mg per ml	10 ml/\$0.80
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METHOXYFLURANE (Penthrane)

125 ml Bottle	\$18.60
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METHSUXIMIDE (Celontin)

150 mg Capsule	100/\$2.51
300 mg Capsule	100/\$4.70

METHYLCELLULOSE

2.5% Ophthalmic Solution Diagnostic (Gonioscopic)	5 ml/\$1.80
1% Ophthalmic Solution (Isopto-Alkaline)	15 ml/\$1.23

METHYLDOPA (Aldomet)		
250 mg Tablet	100/\$5.40	
250 mg per ml Injection	5 ml/\$1.68	
METHYLENE BLUE INJECTION		
1% Solution	1 ml/\$0.15	
METHYLERGONOVINE MALEATE (Methergine)		
0.2 mg per 1 ml Injection	1 ml/\$0.16	
METHYLPHENIDATE HCL (Ritalin)		
10 mg Tablet	100/\$1.82	
100 mg Vial	100 mg/\$1.20	
METHYLPREDNISOLONE (Medrol)		
16 mg Tablet	100/\$47.04	
METHYLPREDNISOLONE ACETATE (Depo Medrol)		
40 mg per ml	5 ml/\$5.00	
80 mg per ml	5 ml/\$13.47	
METHYLPREDNISOLONE SODIUM SUCCINATE (Solu-Medrol)		
40 mg Mix-O-Vial	40 mg/\$1.82	
125 mg Mix-O-Vial	125 mg/\$5.30	
METHYL SALICYLATE LINIMENT (Wintergreen Liniment)		
Contains:	120 ml	
Methyl Salicylate.....	25%	
Mineral Oil USP.....	75%	
METHYLTESTOSTERONE (Metandren)		
10 mg Sublingual Tablet	100/\$0.85	
METHYSERGIDE MALEATE (Sansert)		
2 mg Tablet	100/\$1.30	
Meticortelone - See PREDNISOLONE		
Meticorten - See PREDNISONE		

8966 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Metimyd Ointment - See PREDNISOLONE-SULFACETAMIDE-NEOMYCIN

Metimyd Solution - See SODIUM SULFACETAMIDE AND PREDNISOLONE

Metopirone - See METYRAPONE

Metrazol - See PENTYLENETRAZOL

METRONIDAZOLE (Flagyl)

250 mg Tablet 100/\$4.90

Metubine Iodide - See DIMETHYL TUBOCURARINE IODIDE

METHYRAPONE (Metopirone)

250 mg Tablet 18/\$6.80

Midrin - See ISOMETHEPTENE, DICHLORALPHENAZONE AND ACETAMINOPHEN

MILK OF MAGNESIA USP

240 ml/\$0.11

Miltown - See MEPROBAMATE

MINERAL OIL USP

500 ml/\$0.49

MINERAL OIL, HEAVY, WITH IRISH MOSS EMULSIFIER (Kondremul)

240 ml/\$0.25

MINERAL OIL, LANOLATED, WATER-DISPERSIBLE (Alpha-Keri)

240 ml Bottle/\$1.16

Mintezol - See THIABENDAZOLE SUSPENSION

Miochol - See ACETYLCHOLINE CHLORIDE

Mithracin - See MITHRAMYCIN

MITHRAMYCIN (Mithracin)

2500 mcg Vial/\$7.83

MONOSODIUM - L - GLUTAMATE (Glutavene)
100 ml Vial 100 ml/\$5.00

MORPHINE AND ATROPINE SULFATE INJECTION
Each ml Contains: 20 ml/\$0.79
Atropine Sulfate..... 0.4 mg
Morphine Sulfate.....15.0 mg

MORPHINE INJECTION USP
8 mg Cartridge-Needle Unit 1 ml/\$0.17
10 mg Cartridge-Needle Unit 1 ml/\$0.18
15 mg Cartridge-Needle Unit 1 ml/\$0.19

MORPHINE SULFATE
16 mg Tablet 20/\$0.42

MOUTHWASH ANESTHETIC (Chloraseptic)
3 oz With Sprayer 90 ml/\$0.25

Mucomyst - See ACETYLCYSTEINE

MUMPS SKIN TEST ANTIGEN
1 ml/\$1.00

Musiargen - See MECHLORETHAMINE HCL

M.V.I. - See NONOVITAMIN SOLUTION

Myambutol - See ETHAMBUTOL HCL

Mycifradin - See NEOMYCIN

Mycolog Cream - See NYSTATIN, GRAMICIDIN, NEOMYCIN, AND TRIAMCINOLONE

Mycostatin - See NYSTATIN

Mydriacyl - See TROPICAMIDE

Mylaxen - See HEXAFLUORENIUM BROMIDE

8968 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Myleran - See BISULFAN

Mylicon - See SIMETHLCON

Myochrysine - See GOLD SODIUM THIOMALATE

Mysoline - See PRIMIDONE

Mytrate - See EPINEPHRINE BITARTRATE

N

Naldecon - See PHENYLPROPANOLAMINE HCL, PHENYLEPHRINE HCL, PHENYLTOLOXAMINE CITRATE, AND CHLORPHENIRAMINE MALEATE

NALDIXIC ACID (Neggram)
500 mg Tablet 100/\$8.80

Nalline - See NALORPHINE HCL

NALORPHINE HCL (Nalline)
0.2 mg per 1 ml 1 ml/\$0.99
5 mg per 1 ml 10 ml/\$6.60

Nardil - See PHENELZINE SULFATE

Natalins - See VITAMIN MINERAL TABLETS

Navane - See THIOTHIXENE

NEGATAL SOLUTION (Negatan)
45% Solution 30 ml/\$1.22

Negatan - See NEGATAL SOLUTION

Neggram - See NALIDIXIC ACID

Nembutal - See PENTOBARBITAL SODIUM

Neo-Calglucon Syrup - See GLUBIONATE CALCIUM

Neo-Decadron - See NEOMYCIN AND DEXAMETHASONE

NEOMYCIN SULFATE (Mycifradin)
500 mg Tablets 20/\$0.75
500 mg Vial for Topical or Injection 500 mg/\$0.40

NEOMYCIN SULFATE AND DEXAMETHASONE SODIUM PHOSPHATE (Neo-Decadron)
Each Gram Contains: 3.5 Gram Tube/\$0.53
Dexamethasone Sodium Phosphate.....0.5 mg
Neomycin.....3.5 mg
Each ml of Ophthalmic Solution Contains: 5 ml/\$1.50
Dexamethasone Sodium Phosphate.....1.0 mg
Neomycin.....3.5 mg

8970 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

NEOMYCIN SULFATE IN NORMAL SALINE

0.25% Sterile Solution	1000 ml
0.5% Sterile Solution	1000 ml
1.0% Sterile Solution	1000 ml

NEOMYCIN 40 mg WITH POLYMYXIN (Neosporin G.U.)
200,000 Units per ml 1 ml/\$0.38

NEOMYCIN, GRAMICIDIN AND POLYMYXIN B (Neosporin G)

Each Gram Contains:	15 Gram/\$0.49
Neomycin.....	3.5 mg
Gramicidin.....	0.25 mg
Polymyxin B.....	10,000 Units

NEOMYCIN, HYDROCORTISONE AND POLYMYXIN B OTIC (Cortisporin)

Each ml Contains:	5 ml/\$0.48
Hydrocortisone.....	10.0 mg
Neomycin.....	3.5 mg
Polymyxin B.....	10,000 Units

NEOMYCIN, HYDROCORTISONE AND POLYMYXIN B OPHTHALMIC (Cortisporin)

Each ml Contains:	5 ml/\$0.40
Hydrocortisone.....	10.0 mg
Neomycin.....	3.5 mg
Polymyxin B.....	10,000 Units

NEOMYCIN, GRAMICIDIN, AND POLYMYXIN B OPHTHALMIC (Neosporin)

Each ml Contains:	10 ml/\$0.65
Gramicidin.....	0.025 mg
Neomycin.....	1.750 mg
Polymyxin B.....	5000 Units

Neosporin-G - See NEOMYCIN, GRAMICIDIN AND POLYMYXIN B

Neosporin G.U. - See NEOSPORIN AND POLYMYXIN

Neosporin Ophthalmic Ointment - See ZINC BACITRACIN, NEOMYCIN SULFATE
AND POLYMYXIN B SULFATE OPHTHALMIC
OINTMENT

COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY 8971

Neosporin Ophthalmic - See NEOMYCIN-GRAMICIDIN AND POLYMYXIN B OPHTHALMIC

NEOSTIGMINE METHYLSULFATE (Prostigmin)
 0.25 mg (1:2000) per ml Ampul 1 ml/\$0.05
 0.5 mg (1:2000) per ml 10 ml/\$0.40
 0.5 mg (1:2000) per ml 1 ml/\$0.08

Neo-Synephrine HCL - See PHENYLEPHRINE HCL

Neozin - See PHENYLEPHRINE HCL AND ZINC SULFATE

Nescaine-CE - See CHLOROPROCAINE HCL

Neutrapen - See PENICILLINASE FOR INJECTION

NIACIN (Nicotinic Acid)
 50 mg Tablet 100/\$0.10

NIACINAMIDE (Nicotinic Acid Amide)
 50 mg Tablets 100/\$0.18

Nicotinic Acid - See NIACIN

Nicotinic Acid Amide - See NIACINAMIDE

NIKETHAMIDE INJECTION (Coramine)
 25% Solution 1.5 ml/\$0.07

Nilevar - See NORETHANDROLONE

Nisentil - See ALPHAPRODINE HCL

NITROFURADANTIN (Furadantin)
 100 mg Tablet 100/\$2.00
 5 mg per ml Oral Suspension 120 ml/\$2.15
 180 mg in 20 ml for Injection 20 ml/\$2.28

NITROFURANTOIN MACROCRYSTALS (Macrochantin)
 100 mg Capsules 100/\$17.00

8972 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

NITROFURAZONE AND DIPERODON HCL (Furacin Urethral Inserts)

Each Suppository Contains: 12/\$2.00

Diperodon HCL..... 2.0%

Nitrofurazone..... 0.2%

NITROFURAZONE OINTMENT, NF (Furacin Soluble Dressing)

1:500 1 lb/\$1.82

NITROFURAZONE SUPPOSITORIES (Furacin Vaginal)

Each Suppository Consists of: 12/\$1.30

Glyceryl Laurate.....10.0%

Nitrofurazone..... 0.3%

Polyoxyethylene Sorbitan.....89.7%

NITROFURAZONE TOPICAL SOLUTION (Furacin)

0.2% Solution 60 ml/

NITROGLYCERIN USP

0.3 mg Tablet 100/\$0.20

0.6 mg Tablet 100/\$0.20

2.5 mg Sustained Release Capsule (Nitrospan) 100/\$5.09

Nitrospan - See NITROGLYCERIN

NONAVITAMIN SOLUTION (M.V.I.)

Each ml Contains: 10/\$0.46

Ascorbic Acid..... 50.0 mg

Niacinamide..... 10.0 mg

Panthenol..... 2.5 mg

Pyridoxine HCL..... 1.5 mg

Riboflavin..... 1.0 mg

Thiamine HCL..... 5.0 mg

Vitamin A..... 1000 USP Units

Vitamin D..... 100 USP Units

Vitamin E..... 0.5 I.U.

NONAVITAMIN TABLET

Each Tablet Contains:	100/\$0.27	
Ascorbic Acid.....		75.0 mg
Calcium Pantothenate.....		5.0 mg
Cyanocobalbin.....		2.0 Micrograms
Niacinamide.....		20.0 mg
Pyridoxine HCL.....		2.0 mg
Riboflavin.....		3.0 mg
Thiamine HCL.....		2.0 mg
Vitamin A (5000 USP Units).....		1.5 mg
Vitamin D (400 USP Units).....		10.0 Micrograms

NORETHANDROLONE (Nilevar)

10 mg Tablet 100/\$13.20

NORETHINDRONE AND ETHINYL ESTRADIOL (Norlestrin-21)

Each Tablet Contains:	63/\$1.06	
Ethinyl Estradiol.....		0.05 mg
Norethindrone Acetate.....		1.00 mg

NORETHINDRONE WITH MESTRANOL (Norinyl)

Each Tablet Contains:	60/\$1.21	
Mestranol.....		0.1 mg
Norethindrone.....		2.0 mg

NORETHINDRONE WITH MESTRANOL (Norinyl 1 Plus 80)

Each Tablet Contains:	63/\$0.84	
Mestranol.....		0.08 mg
Norethindrone.....		1.00 mg

NORETHYNODREL WITH MESTRANOL

Each Tablet Contains: (Enovid E)	60/\$1.58	
Mestranol.....		0.1 mg
Norethynodrel.....		2.5 mg
Each Tablet Contains: (Enovid 5 mg)	100/\$6.69	
Mestranol.....		0.075 mg
Norethynodrel.....		5.000 mg
Each Tablet Contains: (Enovid 10 mg)	100/\$12.20	
Mestranol.....		0.15 mg
Norethynodrel.....		9.85 mg

8974 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Norinyl - See NORETHINDRONE WITH MESTRANOL

NORESTREL WITH ETHINYL ESTRADIOL (Ovral)

Each Tablet Contains:	63/\$1.93
Ethinyl Estradiol.....	0.05 mg
Norgestrel.....	0.50 mg

Norlestrin-21 - See NORETHINDRONE AND ETHINYL ESTRADIOL

Normal Saline Nose Drops - See SODIUM CHLORIDE NOSE DROPS

NORTRIPTYLINE HCL (Aventyl)

10 mg Capsules	100/\$2.85
25 mg Capsules	100/\$4.80

Novahistine Expectorant - See CHLORPHENIRAMINE MALEATE, CHLOROFORM, CODEINE PHOSPHATE, GLYCERYL GUAIACOLATE, MENTHOL, AND PHENLEPHRINE HCL SYRUP

Novahistine LP - See CHLORPHENIRAMINE AND PHENYLEPHRINE

Novocaine - See PROCAINE

NPH Insulin - See INSULIN ISOPHANE SUSPENSION

Nupercainal - See DIBUCAINE

Nupercaine HCL - See DIBUCAINE HCL

Nupercaine Heavy - See HEAVY HCL WITH DEXTROSE INJECTION

Nydrazid - See ISONIAZID

NYLIDRIN HCL (Arlidin)

6 mg Tablets	100/\$4.07
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NYSTATIN (Mycostatin)

100,000 Units per Gram Cream	15 Gm/\$0.92
100,000 Units per Gram Ointment	30 Gm/\$1.35
100,000 per ml Oral Suspension	24 ml/\$1.22
500,000 Units Oral Tablet	100/\$6.96
100,000 Unit Vaginal Tablet	15/\$0.91
100,000 Units per Gram Topical Powder	15 Gm/\$1.03

NYSTATIN, GRAMICIDIN, NEOMYCIN, AND TRIAMCINOLONE (Mycolog)

Each Gram Contains:	15 Gram/\$1.67
Gramicidin.....	0.25 mg
Neomycin.....	2.50 mg
Nystatin.....	100,000 Units
Triamcinolone Acetonide.....	1.0 mg
Vanishing Cream Base....qs....	1 Gm

OATMEAL COLLOIDAL CONCENTRATE (Aveeno)
510 Gram/\$1.41

OCTAVITAMIN DROPS

Each 0.6 ml Contains: 30 ml/\$0.31
 Ascorbic Acid..... 50 mg
 Dexpanthenol..... 10 mg
 Niacinamide..... 10 mg
 Pyridoxine..... 1 mg
 Riboflavin..... 1 mg
 Thiamine..... 1 mg
 Vitamin A..... 5000 USP Units
 Vitamin D..... 1000 USP Units

OLEOVITAMIN A AND D NF

Each Capsule Contains: 100/\$0.29
 Vitamin A..... 5000 Units
 Vitamin D..... 1000 Units
 Each Gram Contains: 50 ml/\$0.59
 Vitamin A..... 50,000 - 65,000 Units
 Vitamin D..... 10,000 - 13,000 Units

OLEOVITAMIN D, SYNTHETIC (Deltalin) (Vitamin D)
50,000 Unit Capsules 100/\$2.02

Oncovin - See VINCRISTINE SULFATE

Ophthaine - See PROPARACAINE

Ophthalgan - See GLYCERIN USP

OPHTHOUS ULCER MIXTURE

Contains: 240 ml
 Tetracyclin Syrup 125 mg/5 ml..... 9 ml
 Cordran Cream 0.05%..... 4.5 Gm
 Benadryl Elixir 12.5 mg/5 ml..... 90.0 ml

Oretic - See HYDROCHLOROTHIAZIDE

Osmoglyn - See GLYCERIN USP

ORABASE EMOLLIENT

5 Gram Tube/\$0.35

Oracon - See ETHINYL ESTRADIOL AND DIMETHISTERONE

ORAL CAVITY ANESTHETIC SOLUTION

Contains:

Tetracaine HCL.....	0.100 Gm
Epinephrine 1:1000.....	0.825 ml
Vanillin Essence.....	0.500 ml
Zephiran Chloride 10%.....	0.325 drops
Demineralized Water.....	100.000 ml

Orinase - See TOLBUTAMIDE

Orinase Diagnostic - See TOLBUTAMIDE DIAGNOSTIC INJECTION

Ornade - See CHLORAPHENIRAMINE, ISOPROPAMIDE, AND PHENYLPROPANOLAMINE

ORTHO-GYNOL VAGINAL JELLY

81 Gram/\$1.64

ORTHO VAGINAL CREAM

70 Gram/\$0.78

Otrivin - See XYLOMETAZOLINE HCL

Ovral - See NORGESTREL WITH ETHINYL ESTRADIOL

Ouabain USP - See G-STROPHANTAIN

Ovulen-21 - See ETHYNDIOL DIACETATE WITH MESTRANOL

OXAZEPAM (Serax)

15 mg Capsules

100/\$5.32

OXTRIPHYLLINE AND GLYCERYL GUAIACOLATE (Brondecon)

Each Tablet Contains: 100/\$4.77

Oxtriphylline..... 200 mg

Glyceryl Guaiacolate..... 100 mg

8978 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

OXYMETAZOLINE HCL SOLUTION (Afrin)

0.05% in Plastic Spray Bottle 15 ml/\$0.83

OXYMETHOLONE (Adroyd)

10 mg Tablet 30/\$4.04

OXYPHENBUTAZONE (Tandearil)

100 mg Tablet 100/\$4.55

OXYTETRACYCLINE (Terramycin)

250 mg Vial for I.V. Use 250 mg

125 mg per ml for I.M. Use 2 ml/\$0.78

125 mg per 5 ml Oral Suspension 120 ml/\$1.30

250 mg Tablets 100/\$5.40

OXYTETRACYCLINE HCL AND POLYMYXIN B OPHTHALMIC OINTMENT (Terramycin)

Each Gram Contains: 3.5 Gram/\$0.20

Oxytetracycline..... 5 mg

Polymyxin B Sulfate..... 10,000 Units

OXYTOCIN INJECTION SYNTHETIC (Syntocinon)

10 USP Units per ml 1 ml/\$0.09

P

- Pablate - See SODIUM AMINOBENZOATE, ASCORBIC ACID AND SODIUM SALICYLATE
- PAC - See ASPIRIN, PHENACETIN, AND CAFFEINE
- PAD, MEDICATED COTTON FLANNEL (Tucks)
100/\$0.83
- PANCREATIC DORNASE (Dornavac)
100,000 Unit Vial Vial/\$2.00
- PANCREATIN (Viokase)
324 mg Tablet 100/\$1.74
- PANCRELIPASE (Cotazym)
800 mg Packets 250/\$13.00
- P AND S LOTION
Contains: 240 ml
Mineral Oil USP.....210 ml
Normal Saline..... 37.5 ml
Phenol..... 2.5 ml
- Papase - See CARICA PAPAYA PROTEOLYTIC ENZYMES
- PAP SMEAR SOLUTION
Alcohol USP Containing 2.5% Acetone 1000 ml
- PAPAVERINE HCL (Pavabid) (Cerespan)
150 mg Sustained Release Capsules 100/\$7.79
30 mg per ml 2 ml/\$0.49
- PARALDEHYDE USP
15 ml/\$0.30
- PAREGORIC USP
120 ml/\$0.15
- PAS - See SODIUM AMINOSALICYLATE
- Pasara Sodium - See SODIUM AMINOSALICYLATE

8980 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Pathocil - See DICLOXACILLIN SODIUM

Pavabid - See PAPAVERINE HCL

PENICILLAMINE (Cuprimine)
250 mg Capsule 100/\$6.52

PENICILLINASE FOR INJECTION (Neutrapen)
800,000 Unit Vial/\$5.50

PENICILLIN G POTASSIUM
250,000 Unit Tablets 100/\$0.75
1,000,000 Unit Vial/\$0.13
20,000,000 Unit Vial/\$1.19

PENICILLIN POTASSIUM PHENOXYMETHYL (V-Cillin K)
400,000 Unit (250 mg) Tablet 100/\$1.70
800,000 Unit (500 mg) Tablet 100/\$3.36
400,000 Unit (250 mg) per 5 ml Oral Suspension 150 ml/\$0.90

PENICILLIN G SODIUM
1,000,000 Unit Vial/\$0.20

PENICILLIN PROCAINE G
1,500,000 Unit Vial \$0.18
600,000 Units per ml in Cartridge-Needle Unit 1 ml/\$0.20
600,000 Units per ml in Cartridge-Needle Unit 2 ml/\$0.23

PENTAERYTHRITOL TETRANITRATE (Peritrate)
10 mg Tablet 100/\$1.00
20 mg Tablet 100/\$1.84
80 mg Sustained Release Tablet 100/\$3.30

PENTAZOCINE LACTATE (Talwin)
50 mg Tablet 100/\$6.81
30 mg per ml 10 ml/\$1.13

Penthrane - See METHOXYFLURANE

PENTOBARBITAL SODIUM (Nembutal)

100 mg Tablet	100/\$0.30
50 mg per ml	2 ml/\$0.10
50 mg per ml	5 ml/\$0.10

Pentothal - See THIOPENTAL SODIUM

PENTYLENETETRAZOL (Metrazol)

100 mg per ml	3 ml/\$0.06
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PEPSIN, PANCREATIN AND BILE SALTS (Entozyme)

Each Tablet Contains: 100/\$1.30

Pepsin..... 250 mg

Pancreatin..... 300 mg

Bile Salts..... 150 mg

Perchloroethylene - See TETRACHLOROETHYLENE

Pergonal - See MENOTROPINS

Periactin - See CYPROHEPTADINE HCL

Peritrate - See PENTAERYTHRITOL

PERPHENAZINE (Trilafon)

4 mg Tablets	100/\$3.75
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Persantin - See DIPYRIDAMOLE

PETROLATUM NF.

15 Gram/\$0.08

PETROLATUM LIQUID, LIGHT, STERILE (Ampak)

10 ml/\$0.25

PETROLATUM, WHITE, USP (Vaseline)

PHENACEMIDE (Phenurone)

500 mg Tablet	100/\$0.83
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8982 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

PHENAZOPYRIDINE HCL (Pyridium)

100 mg Tablets 100/\$1.26

PHENELZINE SULFATE (Nardil)

15 mg Tablet 100/\$4.80

Phenergan - See PROMETHAZINE HCL

Phenergan Expectorant - See PROMETHAZINE HCL, CHLOROFORM, IPECAC
FLUIDEXTRACT, AND POTASSIUM GUAIACOLSULFONATE

PHENFORMIN HCL (DBI-TD)

50 mg Sustained Release Capsules 100/\$6.60

PHENINDAMINE TARTRATE, PHENYLEPHRINE HCL, CHLORPHENIRAMINE MALEATE,
AND DRYTANE (Comhist)

Each Tablet Contains: 100/\$2.50

Chlorpheniramine Maleate..... 2 mg

Phenidamine Tartrate..... 5 mg

Phenylephrine HCL.....10 mg

DRYTANE

Atropine Sulfate..... 0.0194 mg

Hyoscyamine Sulfate..... 0.1037 mg

Scopolamine HBr..... 0.0065 mg

Phenistix - See TEST STRIPS AND COLOR CHART, PHENYLKETONURIA

PHENOBARBITAL

20 mg per 5 ml Elixir 120 ml/\$0.10

16 mg Tablet 100/\$0.13

32 mg Tablet 100/\$0.14

60 mg Sustained Release Capsule (Eskabarb) 100/\$1.50

125 mg Ampul 125 mg/\$0.09

Phenol Red - See PHENOLSULFOPHTHALEIN

PHENOLSULFOPHTHALEIN INJECTION (Phenol)

6 mg per 1 ml 1 ml/\$0.07

PHENTOLAMINE MESYLATE (Regitine)
5 mg Ampul 5 mg/\$2.55

PENTOLINIUM TARTRATE INJECTION (Ansolyse)
10 mg per ml 10 ml/\$2.08

Phenurone - See PHENACEMIDE

PHENYLBUTAZONE (Butazolidin)
100 mg Tablet 100/\$3.83

PHENYLEPHRINE HCL (Neo-Synephrine)
1% Injection 5 ml/\$0.22
0.5% Nasal Jelly 17.7 Gm/\$0.10
10% Ophthalmic Solution 5 ml/\$0.25
0.125% Nasal Solution 15 ml/\$0.08
0.25% Nasal Solution 15 ml/\$0.12
0.5% Nasal Solution 15 ml/\$0.16
1% Nasal Solution 15 ml/\$0.20

PHENYLEPHRINE HCL AND ZINC SULFATE OPHTHALMIC (Zincfrin) (Neozin)
Contains: 15 ml/\$1.22
0.12% Phenylephrine HCL
0.25% Zinc Sulfate

PHENYLEPHRINE, PHENYLPROPANOLAMINE, AND GLYCERYL GUAIACOLATE (Entex)
Each Capsule Contains: 100/\$3.70
Phenylephrine HCL..... 5 mg
Phenylpropanolamine HCL..... 45 mg
Glyceryl Guaiacolate.....200 mg

PHENYLPROPANOLAMINE HCL (Propadrine)
25 mg Capsules 100/\$0.35

PHENYLPROPANOLAMINE HCL, PHENYLEPHRINE HCL, PHENYLTOLOXAMINE CITRATE
AND CHLORPHENIRAMINE MALEATE (Naldecon)
Each Sustained Release Tablet Contains: 100/\$3.18
Phenylproanalamine HCL..... 40 mg
Phenylephrine HCL..... 10 mg
Phenyltoloxamine Citrate..... 15 mg
Chlorpheniramine Maleate..... 5 mg

8984 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Phisohex - See DETERGENT SURGICAL

PHOSPHATE SOLUTION

Contains:

Potassium Phosphate, Monobasic.....	0.27 Gm
Sodium Phosphate, Monobasic.....	2.16 Gm
Demineralized Water.....qs.....	100.00 ml

Phospholine Iodide - See ECHOTHIOPHATE IODIDE

PH Paper - See TEST PAPER AND COLOR CHART, HYDROGEN ION

PHYTONADIONE INJECTION (Aqua-Mephyton) (Vitamin K-1)

10 mg per ml	1 ml/\$0.23
1 mg per 0.5 ml	0.5 ml/\$0.41

PILOCARPINE HCL (Isopto-Carpine)

0.5% Ophthalmic Solution, 15 ml/\$1.12
1% Ophthalmic Solution, 15 ml/\$0.26
2% Ophthalmic Solution, 15 ml/\$0.32
4% Ophthalmic Solution, 15 ml/\$0.32
2% Ophthalmic Ointment, 3.5 Gm/\$0.13

PILOCARPINE NITRATE (P.V. Carpine)

1% Ophthalmic Solution	15 ml/\$0.70
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Pipanol - See TRIHEXYPHENIDYL HCL

PIPERACETAZINE (Quide)

25 mg Tablets	100/\$8.25
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PIPERAZINE CITRATE SYRUP (Antepar)

500 mg per 5 ml	120 ml/\$0.17
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Piromen - See PSEUDOMONAS POLYSACCHARIDE COMPLEX

Pitressin - See VASOPRESSIN INJECTION USP

Pitressin Tannate in Oil - VASOPRESSIN TANNATE IN OIL

Placebo Capsules - LACTOBAMATE CAPSULES

PLANTER WART CREAM (Wart Cream)

Contains:	30 Gram	
Salicylic Acid.....	28.07 Gm	
Formaldehyde Solution USP.....	18.70 ml	
Hydrophilic Ointment.....	53.13 Gm	

Plaquenil - See HYDROXYCHLOROQUINE

Plasmanate - See PLASMA PROTEIN FRACTION

PLASMA PROTEIN FRACTION USP (Plasmanate)
5% Solution 250 ml/\$19.60

POLYMYXIN B SULFATE (Aerosporin)
500,000 Unit Vial/\$1.48

POLYMYXIN B SULFATE AND BENZALKONIUM CHLORIDE (Lubasporin)
Each Gram Contains: 5 Gram Tube/\$0.19 15 Gram Tube/\$0.47
Benzalkonium Chloride..... 330 mcg
Polymyxin B Sulfate.....5000 Units

POLYMYXIN B SULFATE SOLUTION OTIC (Aerosporin)
Each ml Contains: 10 ml/\$0.42
Acetic Acid..... 10 mg
Polymyxin B..... 10,000 Units
Propylene Glycol..... 1.025 Gm

POLYVINYL ALCOHOL OPTHALMIC (Liquifilm)
1.4% Solution 15 ml/\$0.59

Pontocaine - See TETRACAINE HCL

PORTAGEN POWDER
20 Calories per 30 Gram 453.6 Gram/\$1.80

Potaba - See POTASSIUM AMINOBENZOATE

8986 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

POTASSIUM AMINO BENZOATE (Potaba)

500 mg Capsules 100/\$2.48

POTASSIUM CHLORIDE

2 mEq per ml 10 ml/\$0.17

300 mg Tablet 100/\$0.16

20 mEq per 15 ml Syrup 250 ml/\$0.40

POTASSIUM GLUCONATE POWDER (K Powder)

Each Level Teaspoon Contains: 8 oz Jar

Potassium Gluconate..... 4.68 Gram (20 mEq)

POTASSIUM IODIDE SOLUTION NF (SSKI)

Contains: 30 ml

Potassium Iodide..... 16 Gram/1 ml

POTASSIUM PERMANGANATE

300 mg Tablet 100/\$0.96

Povan - See PYRVINUM PAMOATE

POVIDONE - IODINE SOLUTION (BETADINE)

10% Solution 1 Gal/\$10.30

PPD - See TUBERCULIN, PURIFIED PROTEIN DERIVATIVE

PRALIDOXIME CHLORIDE (Protopam)

5 Gram Bottle/\$0.60

PREDNISOLONE (Meticortelone)

5 mg Tablet 100/\$0.66

PREDNISOLONE SODIUM PHOSPHATE (Hydeltrasol)

20 mg per ml Injection 5 ml/\$5.53

0.25% Ophthalmic Ointment 3.5 Gm/\$0.54

0.5% Ophthalmic Solution 5 ml/\$1.52

PREDNISOLONE - SULFACETAMIDE - NEOMYCIN OPHTHALMIC (Metimyd)

Each Gram Contains: 3.5 Gram/\$0.18

Neomycin..... 1.75 mg

Prednisolone Acetate..... 5.00 mg

Sodium Sulfacetamide..... 100.00 mg

PREDNISOLONE TERTIARY BUTYLACETATE SUSPENSION (Hydeltra TBA)

20 mg per ml 5 ml/\$2.81

PREDNISONE (Meticorfen) (Deltasone)

1 mg Tablets 100/\$2.23

5 mg Tablets 100/\$0.47

Premarin - See ESTROGENIC SUBSTANCES, CONJUGATED

Pre-Sate - See CHLORPHENTERMINE HCL

PRILOCAINE HCL INJECTION (Citanest)

1% Solution 30 ml/\$1.05

2% Solution 30 ml/\$1.15

3% Solution 20 ml/\$1.15

PRIMAQUINE PHOSPHATE

26.3 mg Tablet 100/\$0.56

PRIMIDONE (Mysoline)

250 mg per 5 ml Oral Suspension 240/\$2.23

250 mg Tablet 100/\$3.58

50 mg Tablet 100/\$0.95

Priscoline - See TOLAZOLINE HCL

Probanthine - See PROPANTHELINE BROMIDE

PROBENECID (Benemid)

500 mg Tablets 100/\$4.53

PROCAINAMIDE HCL (Pronestyl)

250 mg Capsules 100/\$2.28

100 mg per ml Injection 10 ml/\$0.68

8988 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

PROCAINE HCL INJECTION (Novocaine)

1% Solution in Ampul	2 ml/\$0.04
1% Solution in Vial	30 ml/\$0.14

PROCARBAZINE HCL (Matulane)

50 mg Capsules	100/\$8.00
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PROCHLORPERAZINE (Compazine)

5 mg Tablet	100/\$3.47
15 mg Sustained Release Capsule	100/\$9.00
5 mg per 5 ml Syrup	120 ml/\$1.43
5 mg per ml Injection	2 ml/\$0.36

PROCHLORPERAZINE AND ISOPROPAMIDE (Combid)

Each Sustained Release Capsule Contains:	100/\$7.66
Isopropamide Iodide.....	5 mg
Prochlorperazine Maleate.....	10 mg

PROCYCLIDINE HCL (Kemadrin)

5 mg Tablet	100/\$1.83
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PROGESTERONE INJECTION

25 mg per ml	10 ml/\$0.26
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Prolixin - See FLUPHENAZINE HCL

Prolixin Injection - See FLUPHENAZINE ENANTHATE

PROMAZINE HCL (Sparine)

50 mg Tablet	100/\$4.10
50 mg per ml Injection	2 ml/\$0.48

PROMETHAZINE HCL (Phenergan)

25 mg Tablets	100/\$2.03
25 mg per ml Injection	10 ml/\$0.60
25 mg Suppositories	12/\$1.30
6.25 mg per 5 ml Syrup	120 ml/\$0.50

COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY 8989

PROMETHAZINE HCL, ASPIRIN, PHENACETIN AND MEPHENTERMINE SULFATE (Synalgos)

Each Capsule Contains:	100/\$3.20
Aspirin.....	180.0 mg
Mephentermine Sulfate.....	7.5 mg
Phenacetin.....	150.0 mg
Promethazine HCL.....	6.25 mg

PROMETHAZINE HCL, CHLOROFORM, IPECAC FLUIDEXTRACT, AND POTASSIUM GUAIACOLSULFONATE (Phenergan Expectorant)

Each 5 ml Contains:	120 ml/\$0.44
Chloroform.....	0.016 ml
Citric Acid, Anhydrous.....	60.00 mg
Ipecac Fluidextract.....	0.012 ml
Potassium Guaiacolsulfonate....	44.00 mg
Promethazine HCL.....	5.00 mg
Sodium Citrate.....	197.00 mg

Pronestyl - See PROCAINAMIDE

Propadrine - See PHENYLPROPANOLAMINE

PROPANTHELINE BROMIDE (Probanthine)

15 mg Tablets	100/\$1.54
30 mg Vial	30 mg/\$0.53

PROPARACAINE HCL OPHTHALMIC (Ophthaine)
0.5% Solution 15 ml/\$0.91

PROPIOMAZINE HCL (Largon)
20 mg per ml Injection 1 ml/\$0.58

Propion Gel - See CALCIUM PROPIONATE-SODIUM PROPIONATE

PROPOXYPHENE HCL (Darvon)
65 mg Capsules 100/\$2.66

8990 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

PROPOXYPHENE HCL, ASPIRIN, CAFFEINE, AND PHENACETIN		
Each Capsule Contains: (Darvon Compound)		100/\$1.46
Aspirin.....	227 mg	
Caffeine.....	32 mg	
Phenacetin.....	162 mg	
Propoxyphene HCL.....	32 mg	
Each Capsule Contains: (Darvon Compound 65)		100/\$2.74
Aspirin.....	227 mg	
Caffeine.....	32 mg	
Phenacetin.....	162 mg	
Propoxyphene HCL.....	65 mg	
PROPRANOLOL HCL (Inderal)		
10 mg Tablet	100/\$2.66	
40 mg Tablet	100/\$4.25	
1 mg per ml Injection	1 ml/\$0.42	
PROPYLHEXEDRINE INHALANT (Benzedrex)		
250 mg Inhaler	250 mg/\$0.41	
PROPYLTHIOURACIL		
50 mg Tablet	100/\$0.41	
Prostaphlin - See SODIUM OXACILLIN INJECTION		
Prostigmin - See NEOSTIGMINE METHYLSULFATE		
PROTAMINE SULFATE USP		
10 mg per ml Injection	5 ml/\$0.40	
Proterenal - See ISOPROTERENOL HCL		
Protopam - See PRALIDOXIME CHLORIDE		
PROTRIPTYLINE HCL (Vivactyl)		
5 mg Tablet	100/\$5.13	
Provera - See MEDROXYPROGESTERONE ACETATE		

PSEUDOEPHEDRINE HCL (Sudafed)

30 mg per 5 ml Syrup	120 ml/\$2.72
60 mg Tablet	100/\$0.59

PSEUDOMONAS POLYSACCHARIDE COMPLEX (Piromen)

10 mcg per ml Injection	10 ml/\$6.75
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PSYLLIUM HYDROPHILLIC MUCILLOID (Metamucil)

14 oz Can	14 oz/\$0.84
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Purinethol - See 6-MECAPTOPYRINE

Purodigin - See DIGITOXIN

P.V. Carpine - See PILOCARPINE NITRATE

Pyopen - See CARBENICILLIN

Pyralgin - See DIPYRONE

PYRAZINAMIDE

500 mg Tablets	100/\$10.00
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Pyribenzamine - See TRIPELENNAMINE HCL

Pyridium - See PHENAZOPYRIDINE HCL

PYRIDOSTIGMINE BROMIDE (Mestinon)

60 mg Tablet	100/\$2.25
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180 mg Sustained Release Tablets (Mestinon Timespan)	100/\$7.30
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PYRIDOXINE HCL (Vitamin B-6)

50 mg Tablets	100/\$0.32
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100 mg per ml Injection	5 ml/\$0.24
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PYRIMETHAMINE (Daraprim)

25 mg Tablets	100/\$0.79
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8992 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

PYRROBUTAMINE, CYCLOPENTAMINE, AND METHAPYRILENE (Co-Pyronil)

Each ml Contains:	120 ml
Cyclopentamine.....	1.25 mg
Methapyrilene.....	2.50 mg
Pyrrobutamine.....	1.50 mg

PYRVINIUM PAMOATE (Povan)

50 mg Tablets	25/\$2.03
50 mg per 5 ml Oral Suspension	60 ml/\$1.04

PZI Insulin - See INSULIN PROTAMINE ZINC SUSPENSION

Q

Quaalude - See METHAQUALONE

Quadrinal - See EPHEDRINE HCL, PHENOBARBITAL, POTASSIUM IODIDE, AND
.THEOPHYLLINE CALCIUM SALICYLATE SUSPENSION

Questran - See CHOLESTYRAMINE RESIN

Quibron - See THEOPHYLLINE AND GLYCERYL GUAIACOLATE

Quide - See PIPERACETAZINE

QUINACRINE HCL (Atabrine)

100 mg Tablet 100/\$0.72

Quinidex Extentabs - See QUINIDINE SULFATE

QUINIDINE SULFATE

200 mg Tablet 100/\$2.99

300 mg Sustained Release Tablet (Quinidex Extentabs) 100/\$10.24

QUINIDINE GLUCONATE INJECTION

80 mg per ml 10 ml/\$0.78

QUININE DIHYDROCHLORIDE INJECTION

300 mg per ml 2 ml/\$0.15

QUINIDINE POLYGALACTURONATE (Cardioquin)

275 mg Tablet 100/\$10.00

QUININE SULFATE

324 mg Tablet 100/\$2.13

8994 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

R

RABIES VACCINE (Duck Embryo)
7 Doses Pkg/\$4.94

Regitine - See PHENTOLAMINE MESYLATE

RENACIDIN
10% Sterile Solution 1000 ml

RESERPINE (Serpasil)
0.25 mg Tablet 100/\$0.10
2.5 mg per ml Injection 10 ml/\$2.30

Rezipas - See AMINOSALICYLIC ACID RESIN

R-Gene - See L - ARGINE MONOHYDROCHLORIDE

RIBOFLAVIN (Vitamin B-2)
1 mg Tablet 100/\$0.39

Ritalin - See METHYLPHENIDATE HCL

Robaxin - See METHOCARBAMOL

Robitussin - See GLYCERYL GUAIACOLATE SYRUP

Robitussin-DM - See DEXTROMETHORPHAN HBr AND GLYCERYL GUAIACOLATE SYRUP

Robinul - See GLYCOPYRROLATE

SALICYLAZOSULFAPYRIDINE (Azulfidine)

500 mg Tablet 100/\$1.78

SALICYLIC ACID PLASTER

40% Plaster, 2 1/2 x 4" Each/\$0.21

Salpix - See SODIUM ACETRIZOATE AND POLYVINYL PYRROLIDONE

Salt Tablets - See SODIUM CHLORIDE TABLETS, IMPREGNATED

Sansert - See METHYSERGIDE MALEATE

SCARLET RED OINTMENT

5% Ointment 1 lb/\$2.70

Shick Test - See DIPHTHERIA TOXIN, USP

SCHILLER'S TEST SOLUTION

Contains: 240 ml
Iodine..... 3 Gram
Potassium Iodide..... 6 Gram
Demineralized Water.....900 ml

SCOPOLAMINE HYDROBROMIDE (Hyoscine)

0.5 mg per ml Injection 1 ml/\$0.10

0.25% Ophthalmic Solution 15 ml/\$1.62

S.E.B. Lotion - See TRIAMCINOLONE, NEOMYCIN, AND SULFACETAMIDE LOTION

SECOBARBITAL SODIUM (Seconal)

100 mg Capsules 100/\$0.68

SECOBARBITAL SODIUM AND EPHEDRINE SULFATE SYRUP (Secophed)

Each 5 ml Contains: 120 ml
Ephedrine Sulfate..... 10 mg
Secobarbital Sodium..... 16 mg

Seconal - See SECOBARBITAL SODIUM

Secophed - See SECOBARBITAL SODIUM AND EPHEDRINE SULFATE

8996 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

SEIDLITZ POWDERS

Each Blue Paper Contains: 6 Doses/\$1.00

Potassium Sodium Tartrate..... 73%

Sodium Bicarbonate..... 23%

Each White Paper Contains:

Tartaric Acid

SELENIUM SULFIDE DETERGENT SUSPENSION (Selsun)

2.5% 120 ml/\$0.68

Selsun - See SELENIUM SULFIDE DETERGENT SUSPENSION

Semilente Insulin - See INSULIN ZINC SUSPENSION PROMPT

SENNA POD EXTRACT TABLETS (Senokot)

100/\$1.36

Senokot - See SENNA POD EXTRACT TABLETS

Serax - See OXAZEPHAM

Serentil - See MESORIDAZINE BESYLATE

Serpasil - See RESERPINE

SHAKE LOTION

Contains:

Zinc Oxide..... 16.00 Gm

Glycerin..... 2.00 ml

Bentonite..... 1.25 Gm

Lime Water.....qs.....100.00 ml

Sherry Wine - See WINE SHERRY

SHOHL'S SOLUTION

Contains:

Citric Acid..... 14.00 Gm

Sodium Citrate..... 9.80 Gm

Methylparaben..... 0.02 Gm

Propylparaben..... 0.01 Gm

Demineralized Water.....qs...100.00 ml

SILVER NITRATE

6 Inch Applicator 100/\$0.91

SILVER NITRATE SOLUTION MIXING KIT

SILVER PROTEIN MILD (Argyrol)

20% Solution in Dropperettes .1 ml/

SIMETHICONE (Mylicon)

40 mg Tablets 100/\$1.28

40 mg per 0.6 ml Drops 30 ml/\$1.33

Sinequan - See DOXEPIN

SMITH MIXTURE

Each 5 ml Contains: 120 ml

Ephedrine Sulfate..... 3.3 mg

Chlortrimeton..... 0.8 mg

Hydriodic Acid Syrup..... 1.6 ml

SMITH MIXTURE FORTE

Each 5 ml Contains: 240 ml

Ephedrine Sulfate..... 16 mg

Chlortrimeton..... 2 mg

Hydriodic Acid..... 3 ml

Snake Bite Antivenin - See ANTIVENIN CROTAZINE POLVALENT

SOAP, SURGICAL

Contains 2% Hexachlorophene 113 Gram/\$0.07

SODIUM ACETRIZOATE AND POLYVINYLPYRROLIDONE INJECTION (Salpix)

Each ml Contains: 6 ml/\$2.33

Polyvinylpyrrolidone..... 0.23 Gram

Sodium Acetrizoate..... 0.53 Gram

SODIUM AMINO BENZOATE, ASCORBIC ACID AND SODIUM SALICYLATE (Pablate)

Each Tablet Contains: 100/\$2.42

Ascorbic Acid..... 50 mg

Sodium Aminobenzoate..... 300 mg

Sodium Salicylate..... 300 mg

8998 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

SODIUM AMINOSALICYLATE (PAS)	
1 Gram Tablet	100/\$0.79
SODIUM BICARBONATE	
600 mg Tablet	100/\$0.08
75 mg per ml	50 ml Ampul/\$0.39
7.5% Solution	50 ml (Bristoject) \$1.94
SODIUM BICARBONATE, CHARCOAL, AND PEPPERMINT	
Each Tablet Contains:	100/\$0.15
Charcoal.....	65 mg
Peppermint.....	1 mg
Sodium Bicarbonate.....	250 mg
SODIUM BIPHOSPHATE AND SODIUM PHOSPHATE (Fleet Enema)	
133 ml Disposable Enema	/\$0.26
SODIUM CEPHALOTHIN FOR INJECTION (Keflin)	
1 Gram Vial	/\$2.29
4 Gram Vial	/\$8.65
SODIUM CHLORIDE, ACS	
113.4 Gram	/\$0.28
SODIUM CHLORIDE INJECTION, USP	
5 ml Ampul	/\$0.09
250 ml Vial	/\$0.68
2.5 mEq/ml (Ion-O-Trate)	40 ml/\$0.32
23.4% Solution (4 mEq/ml)	30 ml/\$0.35
(Quadrate)	
Sodium Chloride Nose Drops - See NORMAL SALINE NOSE DROPS	
SODIUM CHLORIDE OPHTHALMIC	
5% Ointment	3.5 Gram Tube/\$0.75
SODIUM CHLORIDE TABLETS, IMPREGNATED (Salt Tablets)	
648 mg Tablets	100/\$0.06
SODIUM DEHYDROCHOLATE INJECTION (Decholin)	
20% Solution	5 ml/\$1.44

SODIUM DIATRIZOATE INJECTION (Hypaque Sodium)	
50%	30 ml/\$1.39
SODIUM FLUORIDE (Karidium)	
2.21 mg Tablets	100/\$0.37
SODIUM FLUORSCEIN INJECTION (Fluorescite)	
5% Solution	10 ml/\$1.00
SODIUM FLUORESCIN STRIPS (Ful-Glo)	
100 Sterile Strips	\$2.08
SODIUM INDIGOTINDISULFONATE INJECTION (Indigo Carmine)	
0.8% Solution	5 ml/\$0.26
SODIUM IODIDE INJECTION	
1 Gram	10 ml/\$0.25
SODIUM IOTHALAMATE INJECTION (Conray-400)	
66.8%	25 ml/\$1.53
80%	50 ml/\$4.82
SODIUM LEVOTHYROXINE (Synthroid)	
0.1 mg Tablet	100/\$0.63
SODIUM LIOTHYRONINE (Cytomel)	
25 mcg Tablets	100/\$1.66
SODIUM NITRITE AND SODIUM THIOSULFATE INJECTION	
Pkg	\$1.30
SODIUM OXACILLIN INJECTION (Prostaphlin)	
500 mg Vial	\$0.94
SODIUM POLYSTYRENE SULFONATE USP (Kayexalate)	
453.6 Grams	\$6.50
SODIUM SALICYLATE	
324 mg Enteric Coated Tablets	100/\$0.17

9000 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

SODIUM SULFACETAMIDE OPHTHALMIC (Isopto Cetamide)

10% Ointment	3.5 Gram/\$0.16
15% Solution	15 ml/\$1.36

SODIUM SULFACETAMIDE AND PREDNISOLONE ACETATE OPHTHALMIC (Metimyd)

Each ml Contains:	5 ml/\$1.45
Prednisolone Acetate.....	5 mg
Sodium Sulfacetamide.....	100 mg

SODIUM SULFADIAZINE INJECTION

250 mg per ml	20 ml/\$0.43
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SODIUM SULFOBROMOPHTHALEIN INJECTION (B.S.P.)

50 mg per ml	3 ml/\$0.33
50 mg per ml	7.5 ml/\$0.61

SODIUM THIOSULFATE USP (Antichlor)

20% Solution	240 ml
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Solu-Cortef - See HYDROCORTISONE SODIUM SUCCINATE

Solu-Medrol - See METHYLPREDNISOLONE SODIUM SUCCINATE

Sorboquel - See THIOHEXINOL MBr AND POLYCARBOPHIL

Sparine - See PROMAZINE HCL

Spirits of Camphor - See CAMPHOR SPIRIT

Spiritus Frumenti - WHISKEY, STRAIGHT

SPIRONOLACTONE (Aldactone)

25 mg Tablet	100/\$7.24
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Sporostacin - See CHLORDANTOIN AND BENZALKONIUM CHLORIDE

SSKI - See POTASSIUM IODIDE SOLUTION NF

Staphcillin - See METHICILLIN SODIUM

STAPHYLOCOCCUS TOXOID

1000 Units per ml 5 ml/\$1.53

Stelazine - See TRIFLUOPERAZINE HCL

STIBOPHEN INJECTION (Fuadin)

6.3% 5 ml/\$6.22

Stilbestrol - See DIETHYLSTILBESTROL

Stoxil - See IDOXURIDINE OPHTHALMIC

STREPTOKINASE - STREPTODORNASE (Varidase)

125,000 Unit Vial, For Topical or I.M. Use \$2.35

STREPTOKINASE - STREPTODORINASE TABLET (Varidase)

Each Tablet Contains: 100/\$9.50

Streptodornase..... 2,500 Units

Streptokinase..... 10,000 Units

STREPTOMYCIN

1 Gram Vial/\$0.13

400 mg per ml in Cartridge-Needle Unit 2.5 ml/\$0.25

G-STROPHANTHIN (Ouabain, USP)

0.25 mg per ml Injection 2 ml/\$0.30

Sublimaze - See FENTANYL CITRATE

Suby's - See UROLOGIC SOLUTION G

SUCCINYLCHOLINE CHLORIDE (Anectine)

20 mg per ml 20 ml/\$0.20

1 Gram Bottle/\$0.61

SUCCINYL SULFATHIAZOLE (Sulfasuxidine)

500 mg Tablets 100/\$2.39

SUDACHLOR SYRUP

Each 5 ml Contains: 120 ml

Chlortrimeton..... 1.25 mg

Sudafed..... 15.00 mg

9002 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Sudafed - See PSEUDOEPHEDRINE HCL

SULFACETAMIDE, SULFABENZAMIDE, SULFATHIAZOLE, AND UREA CREAM (Sultrin Vaginal Cream)

Consists of:	78 Gram Tube/\$0.96
Cream Base.....qs.....	100.00%
Sulfabenzamide.....	3.70%
Sulfacetamide.....	2.86%
Sulfathiazole.....	3.42%
Urea.....	0.64%

SULFADIAZINE

500 mg Tablets	100/\$0.79
250 mg per ml Injection	20 ml/\$0.45

SULFAMETHIZOLE

250 mg per 5 ml Oral Suspension (Thiosulfil)	120 ml/\$0.96
500 mg Tablets (Thiosulfil Forte)	100/\$2.89

Sulfamylon - See MAFENIDE ACETATE

SULFANILAMIDE, ALLATOIN, AND AMINACRINE HCL (AVC Vaginal Cream)

Consists of:	113.4 Gram Tube/\$1.83
Allantoin.....	2.0%
Aminacrine HCL.....	0.2%
Sulfanilamide.....	15.0%
Water-miscible Base.....	82.8%

SULFISOXAZOLE (Gantrisin)

500 mg Tablets	100/\$0.90
2 Gram Ampuls	/\$0.78

Sulfasuxidine - See SUCCINYLSULFATHIAZOLE

SULFUR, HEXACHLOROPHENE AND POLYOXYETHYLENE LAURAL ETHER CREAM (Fostriil)

Contains:	28.75 Gram Tube/\$0.82
Hexachlorophene.....	1%
Polyoxyethylene Laural Ether.....	6%
Sulfur, Micropulverized.....	2%

SULISOBENZONE LOTION - (U-Vai)
10% in Plastic Container 165 Gram/\$2.68

SULFASUXIDINE
500 mg Tablets 100/\$2.39

Sultrin Vaginal Cream - See SULFACETAMIDE, SULFABENZAMIDE, SULFATHIAZOLE,
AND UREA CREAM

Surfak - See DIOCTYL CALCIUM SULFOSUCCINATE

Sus-Phrine - See EPINERPHRINE SUSPENSION

Symmetrol - See AMANTADINE HCL

Synalar - See FLUOCINOLONE ACETONIDE

Synalgos - See PROMETHAZINE HCL, ASPIRIN, PHENACETIN AND MEPHENTERMINE
SULFATE

Synthroid - See SODIUM LEVOTHYROXINE

Syntocinon - See OXYTOCIN

T

Tace - See CHLOROTRIANISENE

TALC, USP
453.6 Gram/\$0.50

Tandearil - See OXYPHENBUTAZONE

Talwin - See PENTAZOCINE LACTATE

Tapazole - See METHAMAZOLE

T-BATH

Contains:	120 ml
Doak's Tar Distillate.....	10 ml
Mineral Oil, Lanolated.....	90 ml

Tedral - See THEOPHYLLINE, EPHEDRINE HCL AND PHENOBARBITAL

Tegretol - See CARBAMAZINE

Telepaque - See IOPANOIC ACID TABLET

Temaril - See TRIMEPAZINE TARTRATE

Tempra - See ACETAMINOPHEN

Tensilon - See EDROPHONIUM CL

Tenuate Dospan - See DIETHYLPROPION HCL

Tergisyl - See GERMICIDAL, FUNGICIDAL, VIRUCIDAL

TERPIN HYDRATE ELIXIR (E.T.H.)
118 ml Bottle/\$0.23

TERPIN HYDRATE AND CODEINE ELIXIR (E.T.H. With Codeine)
118 ml Bottle/\$0.34

Terramycin - See OXYTETRACYCLINE

Tessalon Perles - See BENZONATATE

Tes-Tape - See TEST PAPER AND COLOR CHART, GLUCOSE IN URINE

TESTOSTERONE ENANTHATE (Delatest[®]yl)

200 mg per ml 5 ml/\$4.75

TESTOSTERONE ENANTHATE AND ESTRADIOL VALERATE (Deladumane OB)

Each ml Contains: 2 ml/\$1.94

Estradiol Valerate..... 8 mg

Testosterone Enanthate.....180 mg

TESTOSTERONE PROPIONATE INJECTION

25 mg per ml 1 ml/\$0.05

TEST PAPER AND COLOR CHART, GLUCOSE IN URINE (Tes-Tape)

100 Tests/\$0.73

TEST STRIPS AND COLOR CHART, GLUCOSE IN URINE (Clinistix)

50 Tests/\$1.05

TEST PAPER AND COLOR CHART, HYDROGEN ION (pH Paper)

\$1.19

TEST STRIPS AND COLOR CHART, KETONE IN URINE (Ketostix)

50 Tests/\$1.13

TEST STRIPS AND COLOR CHART, PHENYLKETONURIA (Phenistix)

50 Tests/\$1.67

TEST STRIPS AND COLOR CHARTS, URINARY BLOOD, GLUCOSE, PROTEIN, AND pH (Hema-Combistix)

100 Tests/\$4.27

TEST STRIPS AND COLOR CHART, URINARY GLUCOSE AND PROTEIN (Uristix)

100 Tests/\$3.26

TETANUS TOXOID USP

7.5 ml/\$0.17

TETRACAINE HCL (Pontocaine)

10 mg Ampul for Injection/\$0.19

0.5% Ophthalmic Solution 15 ml/\$0.19

0.5% Ophthalmic Solution in Sterile Dropperette

1 ml/\$0.32

0.5% Topical Ointment 28.35 Gram Tube/\$0.11

9006 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

TETRACHLOROETHYLENE CAPSULES (Perchloroethylene)
1 ml Capsule 12/\$0.22

TETRACYCLINE HCL (Achromycin) (Tetracyn)
250 mg Tablet 100/\$0.97
100 mg Vial for I.M. Use \$0.22
250 mg Vial for I.V. Use \$0.46
500 mg Vial for I.V. Use \$0.52
125 mg per 5 ml Oral Suspension 120 ml/\$0.25

Tetracyn - See TETRACYCLINE HCL

TETRAHYDROZOLINE HCL
0.1% Nasal Solution (Tyzine Adult Nose Drops) 15 ml/\$0.43
0.05% Nasal Solution (Tyzine Pediatric Nose Drops) 15 ml/\$0.41
0.05% Ophthalmic Solution (Visine) 15 ml/\$0.73

Tham-E - See TROMETHAMINE WITH ELECTROLYTES

THEOBROMA OIL (Cocoa Butter)
57 Gram Bottle/\$0.48

THEOPHYLLINE (Aerolate)
125 mg Sustained Release Capsule (Aerolate Jr) 100/\$3.00
250 mg Sustained Release Capsule (Aerolate Sr) 100/\$3.30

THEOPHYLLINE AND GLYCERYL GUAIACOLATE ELIXIR (Quibron)
Each 5 ml Contains: 120 ml/\$0.30
Glyceryl Guaiacolate..... 30 mg
Theophylline, Anhydrous..... 50 mg

THEOPHYLLINE ELIXIR (Elixophyllin)
Each 15 ml Contains: 240 ml/\$1.01
Theophyllin.....80 mg 480 ml/\$2.02

THEOPHYLLINE, EPHEDRINE HCL AND PHENOBARBITAL

Each Tablet Contains: (Tedral) 100/\$1.03

Ephedrine HCL..... 24 mg

Phenobarbital..... 8 mg

Theophylline Hydrous..... 130 mg

Each Sustained Release Tablet Contains: (Tedral-SA) 100/\$3.22

Ephedrine HCL..... 48 mg

Phenobarbital..... 25 mg

Theophylline Anhydrous..... 180 mg

Each 5 ml of Oral Suspension Contains: (Tedral) 120 ml/\$0.63

Ephedrine HCL..... 12 mg

Phenobarbital..... 4 mg

Theophylline..... 65 mg

THEOPHYLLINE, EPHEDRINE SULFATE, AND HYDROXYZINE (Marax)

Each Tablet Contains: 100/\$3.63

Ephedrine Sulfate..... 25 mg

Hydroxyzine HCL..... 10 mg

Theophylline, Anhydrous.... 130 mg

Each 5 ml of Syrup Contains: 120 ml/\$0.78

Ephedrine Sulfate..... 6.25 mg

Hydroxyzine HCL..... 2.50 mg

Theophyllin..... 32.50 mg

THERMOMETER SOLUTION

Contains: 1000 ml

Benzalkonium Chloride 10%..... 1.32 ml

Deminerlized Water..... 31.32 ml

Isopropyl Alcohol.....qs..... 100.00 ml

THIABENDAZOLE SUSPENSION (Mintezol)

500 mg per 5 ml 120 ml/\$2.56

THIAMINE HCL (Vitamin B-1)

50 mg Tablets 100/\$0.26

100 mg per ml Injection 10 ml/\$0.31

THIAMIN HCL, NIACINAMIDE, AND RIBOFLAVIN (Triasyn B)

Each Tablet Contains: 100/\$0.11

Niacinamide..... 20 mg

Riboflavin..... 3 mg

Thiamine HCL..... 2 mg

9008 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

THIETHYLPERAZINE MALEATE (Torecan)

10 mg Tablets	100/\$3.59
5 mg per ml Injection	2 ml/\$0.50

THIHEXINOL MBr AND POLYCARBOHIL (Sorboquel)

Each Tablet Contains:	100/\$7.80
Polycarbophil.....	500 mg
Thihexinol MBr.....	15 mg

THIMEROSAL SOLUTION (Merthiolate)

1:1000	473 ml/\$0.49
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THIMEROSAL TINCTURE (Merthiolate)

1:1000	473 ml/\$0.43
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Thiomerin - See MERCAPTOMERIN SODIUM

THIOPENTAL ANESTHESIA KIT (Pentothal)

Consists of Two 5 Gram Bottles of Sodium Thiopental	\$2.99
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THIOPENTAL SODIUM FOR INJECTION (Pentothal)

5 Gram Ampul	\$0.52
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THIOPENTAL SODIUM RECTAL SUSPENSION (Pentothal)

2 Gram	\$1.53
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THIORIDAZINE HCL (Mellaril)

10 mg Tablet	100/\$2.77
25 mg Tablet	100/\$3.70
50 mg Tablet	100/\$4.49
100 mg Tablet	100/\$5.40
150 mg Tablet	100/\$6.82
30 mg per ml Concentrate	120 ml/\$3.89

Thiosulfil - See SULFAMETHIZOLE

Thio-Tepa - See TRIETHYLENETHIOPHOSPHORAMIDE

THIOTHIXENE (Navane)

5 mg Capsules	100/\$8.21
10 mg Capsules	100/\$10.84

Thorazine - See CHLORPROMAZINE		
THYMOL 2% IN CHLOROFORM EAR DROPS		
15 ml		
THROMBIN NF		
5000 Unit Vial/\$2.00		
THYROID USP		
32 mg Tablet	100/\$0.20	
64 mg Tablet	100/\$0.27	
Tigan - See TRIMETHOENZAMIDE HCL		
Tinactin - See TOLNAFTATE		
TINCTURE OF GREEN SOAP		
Titralac - See CALCIUM CARBONATE AND AMINOACETIC ACID		
Tofranil - See IMIPRAMINE HCL		
TOLAZAMIDE USP (Tolinase)		
250 mg Tablet	100/\$6.47	
TOLAZOLINE HCL (Priscoline)		
25 mg Tablet	100/\$0.38	
25 mg per ml	10 ml Vial/\$4.30	
TOLBUTAMIDE (Orinase)		
500 mg Tablets	100/\$3.00	
TOLBUTAMIDE DIAGNOSTIC INJECTION (Orinase Diagnostic)		
1 Gram/\$2.00		
Tolinase - See TOLAZAMIDE		
TOLNAFTATE (Tinactin)		
1% Solution	10 ml/\$1.60	

9010 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Torecan - See THIETHYLPERAZINE MALEATE

Trecator - See ETHIONAMIDE

TRIAMCINOLONE ACETONIDE (Kenalog)
0.025% Ointment 240 Gram/\$7.75

TRIAMCINOLONE ACETONIDE CREAM (Aristocort) (Kenalog)
0.05% Cream 30 Gram, 60 Gram, 120 Gram
0.1% Cream 30 Gram, 60 Gram, 120 Gram
0.5% Cream 30 Gram

TRIAMCINOLONE ACETONIDE AQUEOUS SUSPENSION (Kenalog)
10 mg per ml 5 ml/\$2.12
40 mg per ml 5 ml/\$7.92

TRIAMCINOLONE ACETONIDE PASTE, ORAL (Kenalog in Orabase)
0.1% Ointment 5 Gram Tube/\$0.90

TRIAMCINOLONE ACETONIDE SOLUTION (Kenalog Spray).
0.0066% in Aerosol Dispenser 150 Gram/\$1.80

TRIAMCINOLONE DIACETATE SUSPENSION (Aristocort Forte)
40 mg per ml 5 ml/\$5.00

TRIAMCINOLONE, NEOMYCIN, AND SULFACETAMIDE (S.E.B. Lotion)
Contains: 30 ml
Triamcinolone Acetonide..... 0.1%
Neomycin (As Sulfate)..... 0.1%
Sulfacetamide Sodium..... 10.0%
Demineralized Water.....qs.....

Triasyn B - See THIAMINE HCL, NIACINAMIDE, AND RIBOFLAVIN

Triavil - See AMITRYPTLINE AND PERPHENAZINE

TRICHINELLA EXTRACT
1 ml/\$2.32

TRICHLOROACETIC ACID, ACS

TRICHLOROETHYLENE USP (Trilene)
60 ml Bottles/\$0.24

Tricofuron - See FURAZOLIDONE AND NIFUROXIME SUPPOSITORY

Tridione - See TRIMETHADIONE

TRITHANOLAMINE POLYPEPTIDE OLEATE-CONDENSATE (Cerumenex)
10% Otic Solution 8 ml/\$0.92

TRITHYLENETHIOPHOSPHORAMIDE (Thio-Tepa)
15 mg Vial/\$1.17

TRIFLUOPERAZINE HCL (Stelazine)
1 mg Tablet 100/\$1.92
2 mg Tablet 100/\$4.14
5 mg Tablet 100/\$5.56
10 mg per .ml Concentrate 60 ml/\$8.97

TRIFLUOROETHYL VINYL ETHER (Fluoromar)
125 ml Bottle/\$8.00

TRIHENXYPHENIDYL HCL (Artane) (Pipanol)
2 mg Tablet 100/\$0.46

Trilafon - See PERPHENAZINE

Trilene - See TRICHLOROETHYLENE USP

TRIMETHADIONE (Tridione)
300 mg Capsules 100/\$1.80

TRIMEPAZINE TARTRATE (Temaril)
2.5 mg Tablets 100/\$3.88

TRIMETHAPHAN CAMPHORSULFANATE INJECTION (Arfonad)
50 mg per ml 10 ml/\$2.64

9012 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

TRIMETHOENZAMIDE HCL (Tigan)

250 mg Capsules	100/\$4.40
200 mg Rectal Suppository	6/\$1.00
100 mg per ml Injection	20 ml/\$3.60

TRIPLENNAMINE HCL (Pyribenzamine)

50 mg Tablet	100/\$0.23
100 mg Sustained Release Tablet	100/\$3.14

TRIPROLIDINE HCL AND PSEUDOEPHEDRINE HCL (Actifed)

Each Tablet Contains:	100/\$1.30
Pseudoephedrine HCL.....	60.0 mg
Tripolidine HCL.....	2.5 mg
Each 5 ml of Syrup Contains:	120 ml/\$0.56
Pseudoephedrine HCL.....	30.00 mg
Tripolidine HCL.....	1.25 mg

TROMETHAMINE WITH ELECTROLYTES (Tham-E)

Each Unit Contains:	\$7.39
Tromethamine.....	36 Gm
Sodium Chloride.....	1.75 Gm
Potassium Chloride.....	0.37 Gm

TROPICAMIDE (Mydriacyl)

1% Ophthalmic Solution	15 ml/\$3.28
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TUBERCULN PURIFIED PROTEIN DERIVATIVE (PPD)

1st Strength Test	10 Tests/\$0.60
2nd Strength Test	10 Tests/\$0.63
Intermediate Strength Test	10 Tests/\$0.58

TUBOCURARINE CHLORIDE INJECTION USP

3 mg per ml	10 ml/\$0.34
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Tucks - See PAD, MEDICATED COTTON FLANNEL

Tylenol - See ACETAMINOPHEN

TYLOXAPOL (Enucleene)

0.25% Ophthalmic Solution	15 ml/\$1.35
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THYPHOD - H ANTIGEN
5 ml/\$1.12

Tyzine - See TETRAHYDROZOLINE HCL

U

Ultralente Insulin - See INSULIN ZINC SUSPENSION EXTENDED

UNDECYENIC ACID OINTMENT COMPOUND NF (Desenex Ointment)
28.35 Gram Tube/\$0.14

URACIL MUSTARD
1 mg Capsules 100/\$6.90

Urecholine - See BETHANECHOL CHLORIDE

URINE SUGAR TEST TABLETS (Clinitest)
100/\$1.05

Uristix - See - TEST STRIPS AND COLOR CHART, URINARY GLUCOSE AND PROTEIN

UROLOGIC SOLUTION G (Suby's)
Each 100 ml Contains: 1000 ml/\$0.98
Magnesium Oxide, Anhydrous..... 0.38 Gram
Sodium Carbonate, Anhydrous..... 0.43 Gram
Citric Acid, Hydrous..... 3.24 Gram

U-Vai - See SULISOBENZONE LOTION

V

- Valisone - See BETAMETHASONE VALERATE
- Valium - See DIAZEPAM
- Vancocin - See VANCOMYCIN HCL
- VANCOMYCIN HCL (Vancocin)
500 mg Vial/\$2.35
- VAPO-N-ISO - See ISOPROTERENOL SULFATE
- Varidase - See STREPTOKINASE-STREPTODORNASE
- Vasodilan - See ISOXSUPRINE HCL
- Vaseoline - PETROLATUM, WHITE, USP
- VASOPRESSIN INJECTION USP (Pitressin)
10 Pressor Units per ml 1 ml/\$0.23
- VASOPRESSIN TANNATE IN OIL (Pitressin Tannate in Oil)
5 Pressor Units per ml 1 ml/\$0.25
- Vasoxyl - See METHOXAMINE HCL
- V-Cillin K - See PENICILLIN POTASSIUM PHENOXYMETHYL
- Velban - See VINBLASTINE SULFATE
- Veracillin - See DICLOXACILLIN SODIUM
- VERICOSE VEIN STAIN
Contains:
Pyrogalllic Acid..... 5.0 Gm
Acetone..... 50.0 ml
Ferric Chloride Solution 40%..... 40.0 ml
Alcohol USP.....qs..... 100.0 ml
- Versenate - See CALCIUM DISODIUM EDETATE INJECTION

9016 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Vioform - See IDOCHLORHYDROXYQUIN

Vioform-HC - See IODOHYDROXYQUIN AND HYDROCORTISONE CREAM

Viokase - See PANCREATIN

VINBLASTINE SULFATE (Velban)
10 mg Vial/\$6.37

VIOMYCIN SULFATE
5 Gram Vial/\$5.43

VINCRIStINE SULFATE (Oncovin)
5 mg Vial/\$27.37

Visine - See TETRAHYDROZOLINE HCL

Vistaril - See HYDROXYZINE PAMOATE

VITAMIN A CAPSULES
50,000 Units 100/\$0.50

Vitamin B-1 - See THIAMINE HCL

VITAMIN B COMPLEX ELIXIR
Each 15 ml Contains: 500 ml/\$0.73
Thiamine Hydrochloride..... 1.5 mg
Riboflavin..... 0.6 mg
Pyridoxine Hydrochloride..... 0.6 mg
Niacin..... 6.0 mg
Pantothenic Acid..... 0.6 mg

Vitamin B-2 - See RIBOFLAVIN

Vitamin B-6 - See PYRIDOXINE HCL

Vitamin B-12 - See CYANOCOBALMIN

Vitamin C - See ASCORBIC ACID

Vitamin D Capsules - See OLEOVITAMIN D, SYNETHETIC

Vitamin D2 - See ERGOCALCIFEROL

Vitamin E - See ALPHA TOCOPHERYL ACETATE

Vitamin K-1 - See PHYTONADIONE INJECTION

Vitamin K-3 - See MENADIONE

VITAMIN-MINERAL CAPSULES (Filibon F.A.)

Each Capsule Contains:	100/\$1.05
Ascorbic Acid.....	50.00 mg
Calcium (As Calcium Carbonate).....	230.00 mg
Copper (As Cupric Oxide).....	0.15 mg
Cyanocobalmin.....	2.0 micrograms
Folic Acid.....	1.00 mg
Iodine (As Potassium Iodide).....	0.01 mg
Iron (As Ferrous Fumarate).....	30.00 mg
Magnesium (As Magnesium Oxide).....	0.15 mg
Maganese (As Manganese Dioxide).....	0.05 mg
Niacinamide.....	10.00 mg
Potassium (As Potassium Sulfate).....	0.835 mg
Pyridoxine HCL.....	1.00 mg
Riboflavin.....	2.00 mg
Thiamine Monoitrate.....	3.00 mg
Vitamin A Acetate (4000 USP Units).....	1.20 mg
Vitamin D (400 USP Units).....	10.0 micrograms
Zinc (As Zinc Oxide).....	0.085 mg

VITAMIN MINERAL TABLETS (Natalins)

Each Tablet Contains:	100/\$0.83
Ascorbic Acid.....	100.0 mg
Calcium (As Calcium Carbonate).....	250.0 mg
Calcium Pantothenate.....	5.0 mg
Cyanocobalamin.....	2.0 micrograms
Folic Acid.....	0.1 mg
Iron (As Ferrous Fumarate).....	40.0 mg
Niacinamide.....	15.0 mg
Pyridoxine HCL.....	3.0 mg
Riboflavin.....	2.5 mg
Thiamine Monoitrate.....	1.5 mg
Vitamine A (6000 USP Units).....	1.8 mg
Vitamine D (400 USP Units).....	10.0 micrograms

9018 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

Vivactyl - See PROTRIPTYLINE HCL

VIVONEX - 100

80 Gram Packet

6/\$7.00

W

WARFARIN SODIUM (Coumadin)

2 mg Tablets	100/\$0.92
5 mg Tablets,	100/\$1.35
10 mg Tablets	100/\$2.30

WART REMOVER

Contains in Flexible Collodion:	30 ml
Lactic Acid.....	10%
Salicylic Acid.....	20%

Wart Cream - See PLANTER WART CREAM

WATER FOR INJECTION, STERILE, USP
5 ml/\$0.07

WETTING SOLUTION (Barnes Hinds)
60 ml/\$0.09

WHISKEY, STRAIGHT (Spiritus Frumenti)
757 ml/\$0.94

Whitfield's Ointment - See BENZOIC ACID AND SALICYLIC ACID

WINE, SHERRY
757 ml/\$0.71

Wintergreen Liniment - See METHYL SALICYLATE

Wool Fat - See LANOLIN, ANHYDROUS USP

Wyamine - See MEPHENTERMINE SULFATE INJECTION

Wyanooids-HC - See HEMORRHOIDAL SUPPOSITORIES WITH HYDROCORTISONE

Wydase - See HYALURONIDASE FOR INJECTION

X

Xylocaine - See LIDOCAINE HCL

XYLOMETAZOLINE HCL (Otrivin)

0.1% Nasal Solution

0.1% Nasal Spray

XYLOSE, ANALYZED REAGENT

10 Gram/\$0.64

Y

YEAST TABLETS, DRIED (Brewer's Yeast Tablets)
500 mg Tablet 100/\$0.34

Z

Zactirin - See ASPIRIN AND ETHOHEPTAZINE

Zarontin - See ETHOSUXIMIDE

Zephiran - See BENZALKONIUM CHLORIDE

ZINC BACITRACIN, HYDROCORTISONE, NEOMYCIN SULFATE, AND POLYMYXIN B SULFATE OINTMENT (Cortisporin Ophthalmic Ointment)

Consists of: 3.5 Gram Tube/\$0.79

Bacitracin.....	400 Units
Hydrocortisone.....	10 mg
Neomycin.....	3.5 mg
Polymyxin B.....	5000 Units
White Petrolatum.....	qs.. 1 Gm

ZINC BACITRACIN, NEOMYCIN SULFATE, AND POLYMYXIN B SULFATE OPHTHALMIC OINTMENT (Neosporin Ophthalmic Ointment)

Consists of: 3.5 Gram Tube/\$0.14

Bacitracin.....	400 Units
Neomycin.....	3.5 mg
Polymyxin B.....	5000 Units
Special Ophthalmic Base.....	qs 1 Gm

Zincfrin - See PHENYLEPHRINE HCL AND ZINC SULFATE

ZINC SULFATE

220 mg Capsules 100/\$1.58

ZINC SULFATE OPHTHALMIC SOLUTION, MODIFIED

0.25% 15 ml/\$0.29

ZINC OXIDE AND COD LIVER OIL OINTMENT (Zoco)

Contains:

Oleovitamin A and D Concentrate.....	1.38 ml
Ahydrous Lanolin.....	4.17 Gm
White Petrolatum.....	qs.....100.00 Gm

ZINC OXIDE OINTMENT USP

1 oz Tube/\$0.09

ZINC OXIDE PASTE USP (Lassar's Paste)
30 Gram Jar/\$0.08

Zoco - See ZINC OXIDE AND COD LIVER OIL OINTMENT

Zolyse - See ALPHA-CHYMOTRYPSIN

Zyloprim - See ALLOPURINOL

DRUG
CLASSIFICATION
INDEX

A

ALLERGENS

Piromen Injection

AMEBICIDES/TRICHOMONACIDES

AVC Cream Vaginal

Diodoquin

Emetine HCL USP Injection

Flagyl Tabs, Vaginal Inserts

Floraquin Tabs

AMINO ACID PREPARATIONS

Glutavine Injection

R-Gene Injection

ANALGESICS

APC Tablets

APC with Codeine Tablets #3

Acetaminophen Tablets, Elixir;
Pediatric Drops

Aspirin Tablets

B & O Suppettes

Butazolidin Tablets

Codeine Phosphate Injection

Darvon Capsules

Darvon Compound Capsules

Demerol Tablets, Injection

Dilaudid Injection

Dolophine Injection, Tablets

Edrisal Tablets

Fiorinal Tablets

Indocin Capsules

Innovar Injection

Levoprome Injection

Morphine & Atropine Injection

Morphine Injection USP

Morphine Sulfate Tablets

Nisentil Injection

Pabalate Tablets

Sublimaze Injection

Synalgos Capsules

Talwin Injection, Tablets

Tegretol Tablets

Zactirin Tablets

ANESTHETICS

Brevital Injection

Carbocaine Injection

Cetacaine Injection

Chloraseptic Oral Mouthwash

Citarest Injection

Cocaine HCL Topical Solution

Cyclaine HCL Topical Solution

Dyclone Topical Solution

Fluoromar Solution

Fluothane Injection

Frigiderm Spray

Ketaject Injection

Ketalar Injection

Mintezol Suspension

Nesacaine Injection

Nupercaine, Heavy Injection

Nupercainal Ointment

Novacaine Injection

Ophthetac Solution

Oral Cavity Anesthetic Solution

Penthrane Injection

Pentothal Injection, Rectal

Suppository

Trilene Inhalation

Xylocaine Jelly

ANOREXICS

Ambar Extentabs

Dexadrine Tabs

Dexamyl Sustained Release (S.R.)

PreSate Sustained Release Tablets

Tenuate Dospan

ANTACIDS

Amphojel Suspension, Tablets

Gelusil M. Suspension, Tablets

Maalox Suspension

Magnesium Oxide Tablets

Milk of Magnesia USP

Seidlitz Powders

Sodium Bicarbonate Tab, Injection

Sodium Bicarbonate, Charcoal,

Peppermint, Tab

Shohl's Solution

Titralac Tablets

ANTHELMINTICS

Alcopara Tablets
Antepar Syrup
Atabrine Tablets
Crystoids Pills
Hetrazan Tablets
Povan Suspension, Tablets
Tetrachloroethylene Capsules

ANTIALCOHOL PREPARATIONS

Antabuse Tablets

ANTIARTHRITICS

Myochrysine Injection

ANTIBACTERIALS/ANTIFUNGALS

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Azulfidine Tablets
Benzoic Acid & Salicylic Acid Ointment
Dapsone Tablets
Fungizone for Infusion, Lotion
Furacin Solution, Ointment, Urethral Inserts, Vaginal Inserts
Furadantin Tablets, Oral Suspension, Injection
Furoxone Tablets
Gantrison Suspension, Tablets
Grifulvin V Oral Suspension Tablets
Lubasporin Urethral Cream
Macrochantin Capsules
Mandelamine Suspension, Tablets
Neg-Gram Tablets
Potassium Permanganate Solution
Pyridium Tablets
Sodium Sulfadiazine Injection
Sulfadiazine Tablets
Sulfamethazole Oral Suspension, Tablets
Sulfamylon Cream
Sulfasoxazole Injection, Tablets
Sulfasuxidine Tablets
Tergisyl Powder
Tinactin Solution

ANTIBIOTICS

Ampicillin Capsules, Injection, Suspension
Aureomycin Capsules
Bicillin Injection
Bicillin All Purpose Injection
Bicillin CR Injection
Chloromycetin Capsules, Injection, Oral Suspension
Cleocin Capsules
Colymycin S Oral Suspension
Declomycin Syrup, Tablets
Dynapen Capsules, Suspension
Erythromycin Injection, Suspension, Tablets
Fuadin Injection
Garamycin Injection
Geopen Injection
Ilosone Capsules, Suspension
Kafocin Capsules
Kantrex Injection
Keflex Capsules, Oral Suspension
Loridine Injection
Lincocin Injection, Syrup
Macrochantin Capsules
Mycifradin Tablets, Topical, Injection
Mycostatin Cream, Suspension
Oral Tablet, Vaginal Tablet
Topical Powder
Mycolog Cream
Pathocil Capsules
Potassium Penicillin G Injection, Tablets
Procaine Penicillin Injection
Prostaphlin Injection
Pyropen Injection
Staphcillin Injection
V-Cillin K Tablets, Suspension
Vancocin Capsules
Veracillin Capsules, Suspension

ANTICOAGULANTS

Coumadin Tablets
 Dicumarol Tablets
 Heparin Sodium USP Injection

ANTICONSULSANTS

Celontin Kapseals
 Dilantin Kapseals, Injection,
 Suspension
 Mebaral
 Mysoline Tablets
 Phenurone Tablets
 Tridione Capsules
 Zarontin Capsules

ANTIDEPRESSANTS

Aventyl Capsules
 Elavil Tablets
 Nardil Tablets
 Tofranil Tablets
 Triavil Tablets
 Vivactil Tabs

ANTIDIABETIC AGENTS

DBI-TD Capsules
 Diabinese Tablets
 Dymelor Tablets
 Globulin Zinc Insulin
 Iletin Injection USP
 Lente Insulin
 NPH Insulin
 Orinase Diagnostic Injection
 Orinase Tabs
 PZI Insulin
 Semi Lenti Insulin
 Tolinase Tablets
 Ultra Lente Insulin
 Zarontin Capsules

ANTIDIARRHEALS

Bacid Capsules
 Kaopectate Suspension
 Kaopectate w/Paregoric
 Lomotil Tablets, Liquid
 Sorboquel Tablets

ANTI-DIURETIC

Diapid Nasal Spray
 Pitressin Aqueous Injection

ANTI-DIURETIC (Continue)

Pitressin Tannate in Oil Injectio

ANTI-FIBROTIC

Potaba Tablets

ANTIPLATULANTS

Mylicon Tablets

ANTIHISTAMINES - Also See

SYMPATHOMIMETICS & COMBINATIONS

Actifed Tablets
 Benadryl Capsules, Elixir, Injecti
 Chlorpheniramine Syrup, Tablets
 Chlorpheniramine & Ephedrine
 Syrup
 Co-Pyrionil Capsules, Suspension
 Dimetane Extentabs.
 Dimetapp Extentabs, Elixir
 Novahistine LP Tablets
 Periacin Tablets
 Pyribenzamine Tabs

ANTI-INFLAMMATORY AGENTS

Butazolidin Tablets
 Cordran Cream, Lotion, Tape
 Cort Enema
 Cortef Cream, Injection, Tablets
 Decadron Tablets, Turbinaire
 Deltasone Injection, Tablets
 Depo Medrol Injection
 Depo Provera Injection
 Florinef Tablets
 Hydraltra Injection, Tablets
 Medrol Tablets, Injection
 Meticortelone Tablets
 Meticorten Tablets
 Provera Injection, Tablets
 Solu Cortef Injection
 Solu Medrol Injection
 Synalar Cream, Solution
 Tandearil Tablets

ANTIMALARIALS

Aralen Injection, Tablets
 Chloroquin Tablets
 Daraprim Tablets
 Plaquenil Tablets

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ANTIMALARIALS (Continued)

Primaquin Tablets
Quinine Tablets, Injection

ANTI-MIGRAINE PREPARATIONS

Caffergot PB Suppositories
D.H.E. 45 Injection
Ergomar Sublingual Tablets
Midrin Capsules
Sansert Tablets

ANTINAUSEANTS

Atarax Syrup, Tablets
Bendectin Tablets
Bonadon Drops
Bonine Tablets
Compazine Capsules (S.R.),
Injection, Syrup, Tablets
Dramamine Injection, Tablets
Inapsine Injection
Thorazine Capsules (S.R.),
Injection, Suppositories,
Syrup, Tablets
Tigan Capsules, Injection, Supp.
Torecan Injection, Tablets
Vistiril Injection, Capsules

ANTINEOPLASTICS

Alkeran Tablets
Atabrine Tablets
Cosmegen Lyovac Injection
Cytosar Injection
Cytosan Injection
Efudex Solution, Cream
Fluorouracil Injection
Imuran Tablets
Leukeran Tablets
Matulane Capsules
Methotrexate Injection,
Tablets
Methracin Injection
Mustargen Injection
Myleran Tablets
Myochrysine Injection
Purinethol Injection
Oncovin Injection
Thio-Tepa Injection

ANTINEOPLASTICS (Continued)

Uracil Mustard Capsules
Velban Injection

ANTIPARASITICS

Eurax Cream
Kwell Cream

ANTI-PARKINSONISM DRUGS

Artane Tablets
Cogentin Injection, Tablets
Dopar Tablets
Kemadrin Tablets
Larodopa Tablets
Pipanol Tablets

ANTIPRURITICS

Periactin Tablets
Heat Rash Lotion
Temaril Tablets

ANTIPYRETIC DRUGS

Pyralgin Injection
Tempra Drops, Elixir, Tablets
Tylenol Drops, Elixir, Tablets

ANTISEPTICS

Airkem Detergent
Alcohyde Solution
Betadine Solution
Cresatin Liquid
Iodine Tincture, USP
Lugol's Solution
Mercury Cyanide Tablets
Merthiolate
Phisohex Solution
Silver Nitrate Applicators
Silver Nitrate Solution
Mixing Kit
Surgical Soap
Vioform Cream
Zephiran Chloride Solution

ANTISPASMODICS/ANTICHOLINERGICS

Banthine Injection
Combid Capsules (S.R.)
Donnatal Tablets, Elixir

ANTISPASMODICS/ANTICHOLINERGICS

(Continued)

Probanthine Injection, Tablets

Robinul Tablets

ANTIVERTIGO AGENTS

Bonadoxin Drops

Bonine Tablets

Dramamine Tablets

Torecan Tablets

ANTIVIRAL AGENTS

Stoxil Ointment

Symmetrel Capsules, Syrup

ATARACTICS

Atarax Injection, Syrup,
TabletsCompazine Capsules (S.R.),
Injection, Syrup, Tablets

Equanil Tablets

Haldol Suspension, Tablets

Inapsine Injection

Librium Capsules, Injection

Mellaril Concentrate,
Tablets

Navane Capsules

Prolixin Injection, Tablets

Quide Tablets

Serax Capsules

Serentil Injection, Tablets

Serpasil Tablets, Injection

Sinequan Capsules

Sparine Injection, Tablets

Stelazine Concentrate,
Tablets

Thorazine Injection, Tablets

Triavil Tablets

Trilafon Tablets

Valium Tablets

Vistaril Capsules, Injection
Suspension

B

BAL •

BAL Injection

BIOLOGICALS

Albumin, Normal Human Serum Injection
 Anti-Hemophilic Factor, Human Injection
 Antirabies Serum
 Antivenin Polyvalent Injection
 Black Widow Spider Antivenin Injection
 Coral Snake Antivenin
 Diphtheria Antitoxin Injection
 Fibrinogen Injection
 Frei Antigen (Lymphogranuloma Venereum Antigen Injection)
 Gamma Globulin Injection
 Hyper-Tet Injection
 Hypertussis Injection
 Immune Serum Globulin Injection
 Konyne Injection
 Parenogen Injection
 Plasmanate Injection
 Rabies Vaccine Injection
 Snake Bite Antivenin
 Staphylococcus Toxoid Injection
 Tetanus Immune Globulin
 Tetanus Toxoid, Adsorbed Injection
 Trichinella Extract Injection
 Typhoid-H Antigen Injection

BRONCHIAL DILATORS

Actifed Syrup, Tablets
 Aerolate Capsules
 Brondecon Tablets
 Elixophyllin Elixir
 Isuprel Mistometer, Tablets
 Marax Tablets
 Medihaler Duo Inhalant
 Medihaler Epi Inhalant

BRONCHIAL DILATORS (Continued)

Medihaler Ergotamine Inhalant
 Medihaler Iso Inhalant
 Quadrinal Syrup
 Quibron Capsules, Syrup
 Sus-Phrine Injection
 Tedral Pediatric Suspension Tablets
 Tedral SA Tablets
 Vapo-N-Iso Inhalant

BUFFERING AGENT

Tham E Powder

CALCIUM PREPARATIONS

Calciflor Oral Suspension
 Calcium Gluconate Injection
 Calcium Lactate Tablets
 Neo-Calglucon Syrup

CARDIOVASCULAR PREPARATIONS

Aerolate Capsules
 Aldactone Tablets
 Aldomet Tablets
 Ansolysen Injection
 Apresoline Tablets
 Aramine Injection
 Arfonad Injection
 Arlidin Tablets
 Cardilate Tablets
 Cardioquin Tablets
 Cerespan Capsules (S.R.)
 Cedilanid-D Injection
 Daranide Tablets
 Digitalis Tablets
 Digitoxin Injection, Tablets
 Elixophyllin Elixir
 Histamine Phosphate Injection
 Hydergine Sublingual Tablets
 Hygroton Tablets
 Inderal Injection, Tablets
 Ismelin Tablets
 Isordil Tablets, Sublingual Tablets
 Lanoxin Injection, Pediatric Elixir, Tablets
 Lasix Tablets
 Lidocaine Injection
 Nitrobid Capsules (S.R.)
 Nitroglycerin Tablets
 Nitrospan Capsules (S.R.)
 Ouabain Injection
 Pavabid Capsules (S.R.)
 Papaverine Injection
 Peritrate Tablets
 Persantin Tablets
 Priscoline Tablets
 Pronestyl Injection, Capsules
 Quinidex Extentabs

CARDIOVASCULAR PREPARATIONS (Continued)

Quinidine Injection
 Serpasil Injection, Tablets
 Sodium Iodide Injection
 Thiomerein Injection
 Vasodilan Injection, Tablets

CONVULSANT

Indoklon Ampule for Inhalation

CHELATING AGENTS

Cuprimine Injection
 Desferal Injection
 Versenate Injection

CHOLESTEROL REDUCERS

Atromid-S Capsules
 Cholesterol Tablets

CONTRACEPTIVES

Delfen Cream, Foam
 Demulin Tablets
 Enovid Tablets
 Enovid-E Tablets
 Norlestrin-21 Tablets
 Norinyl Tablets
 Oracon Tablets
 Ortho = Creme Cream
 Ortho = Gynol Jelly
 Ovral Tablets
 Ovulen-21 Tablets

COUGH/COLD PREPARATIONS

Benylin Expectorant
 Codeine Phosphate Syrup
 Codeine Sulfate Tablets
 Comhist Tablets
 Cough Calmers
 Glyceryl Guaiacolate Capsules,
 Pediatric Syrup, Syrup
 Ornade Capsules
 Robitussin & Robitussin DM Syrup
 Terpin Hydrate Elixir
 Terpin Hydrate w/Codeine Elixir
 Tessalon Perles

DECONGESTANTS, EXPECTORANTS,
AND COMBINATIONS
Afrin Nasal Solution
Ammonium Chloride Injection,
Tablets
BACE Mixture
Benylin Expectorant
Benzedrex Inhaler
Disophrol Tablets (S.R.)
Drixoral Tablets (S.R.)
Elixophyllin Elixir
Entex Capsules
Hydriotic Acid Syrup
Mucomyst Solution
Naldecon Tablets
Neo-Synephrine Drops
Novahistine Expectorant
Novahistine LP Tablets (S.R.)
Ornade Capsules
Otrivin Solution, Spray
Phenergan Expectorant
SSKI Solution
Propadrine Capsules
Quadrinal Suspension
Quibron Elixir
Secophed Syrup
Smith Mixture
Smith Mixture Forte
Sudachlor Syrup
Sudafed Syrup, Tablets
Tyzine Solution

DENTAL PREPARATIONS

Calciflor Oral Suspension
Karidiun Tablets
Kenalog in Orabase
Ophthous Ulcer Mix
Orabase Emollient

DERMATOLOGICALS

A&D Ointment
Acne Lotion
Alpha Keri Bath Oil, Lotion
Aluminum Paste
Analgesic Balm
Anti-Chlor Solution

DERMATOLOGICALS (Continued)

Aristocort Cream
Aristocort & LCD Cream
Astringent Solution
Aveeno Oatmeal
Bacitracin Ointment
Bacitracin Neomycin Ointment
Burow's Solution Tablets
Calamine Lotion
Camphor Ice, Emulsion, Spirit
Cantharone Solution
Chigger Lotion
Coal Tar Solution 10% in Green
Soap Tincture
Cocoa Butter
Cooks Ointment
Cordran Cream, Lotion, Tape
Desenex Ointment, Powder
Efudex Cream, Solution
Elaste Ointment
Elidoquin Cream
Fostex Cream, Soap
Fostril Cream
Heat Rash Lotion
Herpes Lotion
Kenalog Cream, Ointment, Spray
Lactic Acid Cream
Lanolin, Anhydrous
Lanolube Ointment
Lassar's Paste
LCD Solution
Lowilla Emollient
Lubra Lotion
Lubra Lotion w/1% Hydrocortisone
Mycolog Cream
Mycostatin Cream, Ointment
Neo-Decadron Cream
Neosporin G Cream
Petrolatum
Planter Wart Cream
P&S Lotion
Salicylic Acid Plaster
Scarlet Red Ointment
S.E.B. Lotion
Selsun Shampoo
Shake Lotion

DERMATOLOGICALS (Continued)

Sodium Thiosulfate Solution
Synalar Cream, Solution
T-Bath
U-Val Lotion
Valisone Cream
Wart Cream
Wintergreen Liniment
Zoco Ointment
Zinc Oxide Ointment
Zinc Oxide Paste

DIAGNOSTICS

Acetest Tablets
Angio Conray Injection
Blastomycin Skin Test
Brucellagen
B.S.P. Injection
Clinitest Tablets
Clinistix Test Strips
Coccidioidin Skin Test
Conray Injection
Conray 400 Injection
Decholin Injection, Tablets
Dextrose 100 Solution
Diphtheria Toxin Diagnos-
tic (Shick Test)
Direct Sky Blue Injection
Fluorescein Strips, Injection
Guaiac Test Solution
Hema-Combistix Test Strips
Histalog Injection
Histoplasmin Injection
HP-Acthar Gel
Hypaque Sodium Injection
Indigo Carmine Injection
Ketostix Test Strips
Lipidol Oil
Mestinon Tablets
Methylene Blue Injection
Metopirone Injection
Mump Skin Test Antigen
Orinase Diagnostic Injection
PAP Smear Solution
Phenistix Test Solution
Phenol Red Injection
Ph Paper

DIAGNOSTICS (Continued)

PPD Skin Tests
Regitine Injection
Salpix Injection
Schiller's Test Solution
Telepaque Tablets
Uristix Test Strips
Varicose Vein Stain

DIURETICS

Aldactone Tablets
Aminophyllin Tablets, Injection,
Suppositories
Daranide Tablets
Diamox Tablets
Diuril Oral Suspension
Edecrin Injection
Esidrix Tablets
Hygroton Tablets
Lasix Injection, Tablets
Mannitol Solution
Mercurhydrin Injection
Oretic Tablets
Thiomerin Injection

E

F

ELECTROLYTES

Balanced Salt Solution
Electrolyte Solution, Sterile
Kayexalate Resin
K-Powder
Potassium Chloride Syrup,
Tablets
Sodium Chloride Injection,
Tablets

EMETICS

Ipecac Syrup USP

ENZYMES & DIGESTANTS

Acidulin Capsules
Cotazym Capsules, Packets
Decholin Tablets
Dornavac Injection
Elastase Ointment
Entozyme Tablets
Neutrapen Injection
Papase Tablets
Protamide Injection
Varidase Cream, Injection,
Tablets
Viokase Tablets
Wydase Injection
Zolyse Powder

FERTILITY AGENTS

Clomid Tablets

FOODS

Lipomul Oral Emulsion
Lofenalac Powder
Portagen Powder

H

HEMATINICS

Acidulin Capsules
Fer-in-Sol Drops
Ferro-Sequels Capsules
Ferrous Sulfate Tablets
Imferon Injection
Jectofer Injection

HEMORRHOIDAL PREPARATIONS

Anal Paste
Anusol Suppositories
Anusol HC Suppositories
Rectal Medicone Suppositories
Rectal Medicone HC Suppositories
Tucks Pads
Wyanoid HC Suppositories
Xylocaine Ointment

HEMOSTATICS

Amicar Syrup
Aqua-Mephyton Injection
Fibrin Anti-Hemophilic Factor
for Injection
Hemofil Injection
Koyne Injection
Menadione Injection, Tablets
Prenarin IV Injection
Protamine Sulfate Injection
Thrombin Injection, Topical

HORMONES

Acthar Gel Injection
ACTH Injection
Adroyd Tablets
APL Injection
Chorionic Gonadotropin In-
jection
Deladumone Injection
Delalutin Injection
Deluteval 2X Injection
Depo-Provera Injection
Diapid Solution
Diethylstilbestrol Tablets
Estinyl Tablets

HORMONES (Continued)

Halotestin Tablets
Metandren Tablets
Nilevar Tablets
Pergonal Injection
Pitressin Injection
Progesterone Injection
Provera Tablets
TACE Capsules
Testosterone Propionate In-
jection

HYPOGLYCEMIA AGENTS

Glucagon Injection

I

M

IRRIGATING SOLUTIONS
 Acetic Acid Solution
 Neomycin Sulfate in Normal
 Saline Solution

IV SOLUTIONS
 Dextrose Injection
 Hyperalimentation Kit

MUCOLYTIC AGENTS
 Mucomyst
 Sodium Iodide Injection

MUSCLE RELAXANTS
 Anectine Injection
 Flaxedil Injection
 Metubine Iodide Injection
 Mylaxen Injection
 Robaxin Injection, Tablets
 Tubocurarine Injection

L

N

LAXATIVES
 Aromatic Cascara Sagrada
 Fluidextract
 Cascara Tablets
 Castor Oil
 Doxidan Capsules
 Doxinate Capsules
 Dulcolax Tablets, Suppositories
 Epsom Salt
 Fleet Enema
 Glycerin Suppositories
 Kondremul Suspension
 Metamucil Powder
 Milk of Magnesia
 Mineral Oil
 Phosphate Solution
 Senokot Tablets
 Surfak Capsules

LUBRICANTS
 K-Y Jelly
 Lubasporin

NARCOTIC ANTAGONISTS
 Lofan Injection
 Nalline Injection

OPHTHALMIC PREPARATIONS

Argyrol Solution
Atropine Sulfate Ointment,
Solution
Bacitracin Ointment
Balanced Salt Solution
Blinx Solution
Boric Acid Ointment
Carbachol Solution
Cocaine HCl Solution
Contact Lens Wetting Sol-
ution
Cortisporin Ointment, Sol-
ution
Enucleus Solution
Epinal Solution
Eppy Solution
Ful Glo Strips
Garamycin Solution
Glaucon Solution
Herplex Solution
Homatropine HBr Solution
Humorsol Solution
Hydeltrasol Solution
Isopto Alkaline Solution
Isopto Carbachol Solution
Isopto Carpine Solution
Isopto Cetamide Solution
Liquifilm Tears
Maxidex Solution
Metlmyd Ointment, Solution
Miochol Solution
Mydracyl Solution
Mytrate Solution
Neo Decadron Ointment, Sol-
ution
Neosporin Ointment, Solution
Neo Synephrine Solution
Neozin Solution
Ophthaine Solution
Ophthalgan Solution
Phospholine Iodide Solution
P.V. Carpine Solution
Scopolamine HBr Solution
Sodium Chloride Ointment
Stoxil Ointment
Terramycin Ointment

OPHTHALMIC PREPARATIONS (Con-
tinued)

Visine Solution
Zinc Sulfate Solution
Zolyse Solution

OTIC PREPARATIONS

Acetic Acid in Alcohol Drops
Aerosporin Drops
Auralgan Drops
Boric Acid in Alcohol Drops
Burow's Solution
Cerumenex Drops
Colymycin Drops
Cortisporin Drops
Glycerin & Hydrogen Peroxide
Neo-Decadron Drops
Thymol in Chlorform Drops

OXYTOCICS

Ergotrate Tablets
Methergine Injection
Syntocinon Injection

P

PARASYMPATHETIC AGENTS
(PARASYMPATHOMIMETICS)
Ilopan Injection
Mecholyl Injection
Mestinon Tablets
Prostigmin Injection
Tensilon Injection
Urecholine Injection, Tablets

PARASYMPATHOLYTIC AGENTS
Bellergal Spacetabs (S.R.)
Combid Spansules (S.R.)

PLASMA FRACTIONS, HUMAN
Albumin
Immune Serum Globulin
Koyne
Parenogen
Plasmanate

PSYCHOSTIMULANTS
Dexamyl Spansules (S.R.)
Dexedrine Tablets
Metrazol Injection
Nardil Tablets
Ritalin Injection, Tablets
Tofranil Tablets

POISONING ANTIDOTES
B.A.L. Injection
Protopam Injection
Sodium Nitrite & Sodium
Thiosulfate Injection

R

RESINS, ION EXCHANGE
Cuemid Powder
Kayexalate Powder
Questran Powder

RESPIRATORY STIMULANTS
Caffeine & Sodium Benzoate
Injection
Coramine Injection
Dopram Injection
Metrazol Injection

Q

QUINIDINE
Cardioquin Tablets
Quinidex Extentabs (S.R.)

S

SCABIETICIDES

Eurax Cream
Kwell Cream

SEDATIVES

Amytal Capsules, Injection
Beta Chlor Tablets
Chloral Hydrate Syrup
Dalmane Capsules
Doriden Tablets
Eskabarb Spansules (S.R.)
Inapsine Injection
Largon Injection
Levoprome Injection
Nembutal Injection, Tablets
Paraldehyde
Phenergan Injection, Suppositories, Syrup, Tablets
Phenobarbital Elixir, Injection, Tablets
Quaalude Tablets
Seconal Capsules

SYMPATHOLYTIC AGENTS

Bellergal Spacetabs (S.R.)
Regitine Injection

SYMPATHOMIMETICS & COMBINATIONS

Adrenalin Injection
Aerolate Sr. & Jr. Capsules
Dexamyl Spansules (S.R.)
Isuprel Injection, Solution, Tablets
Levophed Injection
Neo Synephrine Injection, Solution
Tyzine Nose Drops
Wyamine Injection

T

THYROID PREPARATIONS

Choloxin Tablets
Cytomel Tablets
Propylthiouracil Tablets
Tapazole Tablets
Thyroid Tablets
Synthroid Tablets

TUBERCULOSIS PREPARATIONS

Amino Salicylic Acid Powder
Isoniazid Injection, Syrup, Tablets
Myambutol Tablets
Pasara Tablets
Pyrazinamide Tablets
Rezipas Powder
Trecator SC Tablets

U

URICOSURIC AGENTS

Benemid Tablets
Zyloprim Tablets

URILOGICAL IRRIGANTS

Neosporin G.U. Irrigant
Renacidin Solution
Suby's Solution

VAGINAL PREPARATIONS

AVC Cream
Dienestrol Cream
Delfen Cream, Foam
Floraquin Tablets
Furacin Suppositories
Gynben Inserts
HYVA Tablets
Mycostatin Tablets
Ortho Cream
Ortho-Gynol Jelly
Propion Gel
Sporostacin Cream
Sultrin Cream
Tricofuron Suppositories

VITAMINS

Cod Liver Oil
Filabon F.A. Capsules
Folvite Injection, Tablets
Heptavitamin Tablets
Leucovorin Calcium Injection
Liver Injection
Liver, Crude Injection
M.V.I. Injection
Natalins Tablets
Niacin Tablets
Niacinamide Tablets
Nonavitamin Tablets
Octavitamin Drops
Oleovitamin A&D, Concentrate
Capsules
Pyridoxin Injection, Tablets
Riboflavin Tablets
Vitamin A Capsules
Vitamin B₁ Injection, Tablets
Vitamin B₁₂ Injection
Vitamin B Complex Elixir
Vitamin C Injection, Solution,
Tablets
Vitamin D Capsules, Solution
Vitamin E Tablets
Vitamin K Injection, Tablets
Vitamin K₃ Injection

How Much Does It Cost?

Major George F. Powell, Jr., US AR, MSC

The Air Force Medical Materiel Field Office Letter Number 2-71, dated 5 February 1971, quoted from a "million dollar letter" entitled "Rational Prescribing of Drugs" which was published by Headquarters USAF. The third paragraph read:

In addition to those drugs determined to be ineffective, there is the matter of high cost drugs being prescribed when equally effective but much less expensive drugs are available. Many experts are convinced that Librium and Valium are vastly overprescribed today. Similarly, Narcan probably has no greater analgesic effectiveness than aspirin and there are totally effective low cost alternatives for Gralise. Therapeutic committees must regularly review their own drugs consumption data to insure that formularies not only satisfy the needs of the staff but also accurately reflect the judg-

ments of current medical literature and the worth of the patient's dollar. We cannot justify the purchase of high cost drugs when equally effective but less expensive alternatives are available.

How can we readily identify the comparative costs of similar drugs, and how can this information be made readily accessible to the practicing physician? The data automation system has many reports that are used to manage our medical resources, but there is not a simple, convenient way in which the practicing Air Force physician can identify and compare the relative cost of similar pharmaceuticals.

There are several commercial publications that present wholesale and retail costs, and

APPETITE CONTROL PREPARATIONS

NOMENCLATURE	COST*	COST PER DAY	COST PER 100 CAPS	ISSUES FROM MED SUPPLY BUREAU LAST 3 MONTHS	DOLLAR VALUE OF CP REQUIS
Dexedrine Hcl Tab 5mg 100s	\$9.29	0.84 1¢	0.0084¢	11 x 100	\$929 \$376
Phenobarbital Tab 1/2gr 100s	\$0.13	0.4¢	0.0013¢	12 x 100	\$13
Amobarbital Tab 21 500s	\$14.00	8¢	8¢	1 x 500	\$14.00
Amobarbital 500s	\$56.70	7¢	7¢	0	0
Phenobarbital 75mg 100s	\$76.60	8¢	8¢	0	0
Tenaxate Duspun 75mg 100s	\$8.37	9¢	9¢	51 x 100	\$489.37
Phenobarbital Tablets 25mg 100s	\$29.20	9¢	9¢	1 x 1000	\$29.20

* Data were taken from 10 June 1971.

Figure 1

"COLD FORMULA"

NOMENCLATURE	COST	COST PER DAY	COST PER TAB/CAPS	ISSUES FROM REG SUPPLY DURING PAST 3 MONTHS	DOLLAR VALUE OF ISSUES
Chlorbutol Tablets 100's	\$ 0.55	32¢	0.0032¢	1 x 1000	\$ 0.32
Propalidine Cap 25mg 50's	\$ 1.70	14¢	0.0034¢	0	0
Chlorbutol Capsules 100's	\$18.00	4¢	1¢	0	0
Chlorbutol Supp 100's	\$ 2.35	5¢	5¢	1 x 100	\$ 4.55
Meperid Tablets 100's	\$ 1.57	6¢	1¢	150 x 100	\$210.00
Meperid Chronotab 100's	\$ 4.94	8¢	4¢	8 x 100	\$ 32.32
Meperid 150mg Chronotab 50's	\$15.00	8¢	4¢	7 x 50's	\$133.00
Ornade Spansule 100's	\$19.00	12¢	1¢	14 x 500	\$168.00
Ornade "Ornade" 50's	\$ 6.20	12¢	2¢	4 x 250	\$ 53.10
Ornade 150 mg Caps 100's	\$18.00	14¢	1¢	0	0
TOTAL					\$850.00

Combination of Chlorbutol and Propalidine is a similar formula to that of Ornade Spansule. Note the difference in cost per day: 2¢ as compared to 12¢.

Figure 2

ANTICHOLINERGIC PREPARATIONS

NOMENCLATURE	COST	COST PER DAY	COST PER TAB/CAPS	ISSUES FROM REG SUPPLY DURING PAST 3 MONTHS	DOLLAR VALUE OF ISSUES
Homatropine Tablets 100's	\$ 1.10	1¢	0.002¢	15 x 500	\$16.50
Probanthine Tablets 100's	\$15.10	6¢	2¢	3 x 1000	\$45.50
Homatropine Spacetabs 100's	\$ 4.99	10¢	5¢	10 x 100	\$79.84
Combud Spansules 50's	\$38.50	16¢	8¢	1 x 250	\$38.60
TOTAL					\$180

Figure 3



JOINT PAMPHLET

"HOW MUCH DOES IT COST?" PAMPHLET

Facing medical supply costs is essential to a continuing analysis of ways to reduce this trend. As a first step, one must have a simple, convenient way to compare the costs of similar pharmaceuticals. Many times, one of several available pharmaceuticals may be used to treat a specific illness. In cases like this, cost can certainly be the deciding factor; therefore, why not choose the less expensive medication? The creation of a "How Much Does It Cost?" pamphlet will enable Air Force physicians to have a ready reference to compare similar pharmaceuticals and their respective prices.

HOW THE SYSTEM WORKS: On several different groups of chemical, pharmaceutical compounds, several items are listed for consideration, and additions and deletions may be made to this basic list of preparations to satisfy local requirements: Appetite control, antacids, anticholinergics, antidiarrheals, antidiuretics, antidepressants, antihistamines, antihypertensives, antiparasitics, antipruritics, antipsychotics, antitussives, antibiotics—parenteral/oral, and oral pediatric and prenatal.

Figure 1 illustrates a sample page from the pamphlet. Pharmacy and medical staffs must work together to determine the specific items that will comprise each list. After the items are selected, the cost per day and cost per tablet or capsule can be computed.

COST PER DAY: The cost per day may be computed by referring to the Physician's Desk Reference index under "dosage and uses." The "dosage and uses" information will tell the average daily dosage for the drug being studied. This information is used to select items on the list; however, the quantity prescribed per day may vary considerably. Therefore,

questioned the ability of administrators to ascertain what the average daily dosage should be. For this reason, a cost per tablet/capsule column is added.

COST PER TABLET/CAPSULE: This cost may be found simply by dividing the number of tablets or capsules in a bottle into the unit cost of the item.

REVIEW FROM MEDICAL SUPERVISOR: B-222 accounts can utilize the Quarterly Stock Status Report to determine the status to using activities during the three-month period covered in the pamphlet. After three or four quarters of experience have been acquired, an analysis can be made (see Fig. 1) which will show if the program is effective. If the physicians use the pamphlet, there should be a gradual decrease in the consumption of higher priced pharmaceuticals and an increased consumption in the moderate and lower priced pharmaceuticals.

DOLLAR VALUE OF ISSUES: The column shows the dollars being spent on specific medications during a given three-month period. Notes can be added at the bottom of each list to emphasize price difference, that is, "Combination of Chlortrimeton and Pyridoxine is a similar formula to that of Unadex capsules. Note difference in cost per day: 2¢ as compared to 12¢."

The formulation of the pamphlet can be initially accomplished in approximately 16 man-hours of labor, and easily updated each quarter. Success will be determined primarily by the interest shown by the medical staff.

Information about this pamphlet may be obtained from the American Medical Association, 535 North Dearborn Street, Chicago, Illinois 60610. (Continued on next page)

COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY 9045

DEPARTMENT OF THE AIR FORCE
UNITED STATES AIR FORCE REGIONAL HOSPITAL, CARSWELL (SAC)
CARSWELL AIR FORCE BASE, TEXAS 76127



REPLY TO
ATTN OF: SGL

27 April 1972

SUBJECT: "How Much Does it Cost Pamphlet" (1 Jan 1971 through 31 March 1972)

TO: DPSC-A
ATTN: Colonel Douglas Lindsey

Subject pamphlet is forwarded as you requested during your visit of
24 March 1972.

FOR THE COMMANDER

Stanley Rhodes
STANLEY RHODES, Colonel, USAF, MSC
Hospital Administrator

1 Atch
"How Much Does it Cost
Pamphlet"

USAF REGIONAL HOSPITAL CARSWELL

Carsewell Air Force Base, Texas

"How Much Does It Cost" Pamphlet (1 Jan 1971 through 31 March 1972)
(Selected Pharmaceuticals and other Medical Material Items Only)
25 April 1972

HOW MUCH DOES IT COST KATHLEEN
1 Jan 1971 through 31 March 1972

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GENERAL COMMENTS

Purpose: In the past assigned physicians have not had a simple, convenient way to compare the costs of similar pharmaceuticals. In many cases, one of several available pharmaceuticals can be used to treat a specific illness. In such cases, cost can be the deciding factor; therefore, why not prescribe the less expensive medication. This pamphlet is intended to give assigned physicians a means of making a choice between similar (collected) drugs when price may be the deciding factor. In addition to pharmaceuticals, this pamphlet also includes a list of other medical and non-medical material items (group 28) which were this organization \$11,216.44 during the 12 month period ending 31 March 1972. The professional staff, sections, respiratory therapists, and cost center managers are encouraged to seek ways and means through coordinated management actions to reduce consumption of these items as well as pharmaceuticals, whenever possible. All such management actions implemented should be brought to the attention of Mr. Richards, the Hospital Resource Management Officer, for reporting in the USAF Suggestions and/or Resource Conservation Programs.

Summary of Trends by Major Groups of Items

Item Group	Total Annual Cost for Period ending 31 Mar 72	Cost for Qtr ending 31 Dec 71	Cost for Qtr ending 31 Mar 72	Cost differences between last two quarters
1. Cardiac Therapy	553,192.15	\$13,221	\$15,408	+2,187
2. Tranquilizers-Anxiety	32,949.65	9,448	7,111	-2,337
3. Antacids	6,207.40	1,806	1,439	-367
4. Anti-Diarrhea	3,270.72	497	659	+162
5. Antidepressants	9,371.33	2,973	2,332	-641
6. Anti Leukemia	2,352.56	906	409	-497
7. Anti Cholesterol	2,316.32	907	1,199	+292
8. Anti Obesity	2,134.30	878	30	-731
9. Antipsychotic	11,929.90	3,183	2,452	-548
10. Anti Anemics	3,518.00	792	674	-118
11. Diuretics	3,212.55	726	907	+181
12. Antibiotics	39,172.85	12,830	12,143	-687
13. Anti Lactation	3,090.45	434	115	-319
14. Birth Control	11,759.06	2,887	2,730	-157
15. Food	704.09	506	144	-416
16. Anti Diabetics	7,738.64	2,234	1,705	-529
17. Anti Gout	5,369.87	1,473	1,473	0
18. Topical Preparations	14,371.65	3,833	4,123	+290
19. Analgesics	32,403.02	9,838	7,824	-2,014
20. Antihistamine	3,287.02	759	1,591	+832
21. Decongestion- <u>Av</u> -rhinstamine	26,975.83	6,988	7,285	+297
22. Liquid Cold Prepa/4 oz	4,807.82	1,163	1,929	+766
23. Laxatives	5,332.86	1,389	1,445	+56
24. Misc Drug	4,971.64	1,261	2,036	+775
25. Hormone	7,464.10	1,757	2,272	+515
26. Anti Asthmatic	1,548.50	423	586	+163
27. Muscle Relaxants	3,655.60	909	1,344	+435
28. Other High Cost material items	131,216.44	36,353	35,074	-1,279
				11.

	<u>Total Annual Cost for Period Ending 31 Mar 72</u>	<u>Cost for Qtr Ending 31 Dec 71</u>	<u>Cost for Qtr Ending 31 Mar 72</u>	<u>Cost Differences Between Last Two Quarters</u>
Totals*	\$432,730.19	\$120,438	\$116,439	-\$3,989

* Totals represents issue demands for 196 line items out of approximately 4700 medical and non-medical line items routinely handled by the Medical Stock Record Account.

GROUP 1 - DRUGS USED IN CARDIAC THERAPY

STOCK NUMBER	NAME/CLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN 71	ISSUES APR 70	ISSUES JULY 70	ISSUES OCT 70	ISSUES JAN 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-890-1856	ALDOMET TAB, 0.25mg, 100s	BT	\$5.35	.2140	.0533	702	804	1020	924	1236	3984	\$21,754.40
6505-901-0043	DIAZIDE (TRIAMTERENE H ₂)CAPS, 1000 BT	BT	45.40	.0454	.0454	30	53	62	69	66	250	3,350.00
6505-781-3111	ISORDIL TAB, 40mg, 100s	BT	6.47	.1300	.0647	132	120	168	120	96	504	3,260.88
P001-331-2121	ZAON TABS, 500s	BT	9.50	.1520	.0190	123	89	108	72	72	341	3,239.50
6505-854-2242	ISMELIN TABS, 100s, 10mg	BT	4.66	.0466	.0466	78	105	87	120	84	396	1,845.36
6505-106-7395	INURAL TABS, 10mg, 100s	BT	2.39	.0956	.0239	0	48	139	148	386	721	1,723.29
6505-944-9673	PAC-VERINE CAP, 1.0mg, 1000#	BT	58.75	.2174	.0587	5	5	6	7	9	27	1,586.25
P004-604-6491	INDERAL TABS, 40mg, 1000#	BT	42.45	.1700	.0425	4	21	1	6	5	33	1,400.85
6505-889-7929	ORETIC TABS, 1000s	BT	5.94	.0060	.0060	81	56	60	56	47	229	1,371.71
6505-926-8996	ALDACTONE (SPINAPAL) CAPS, 15mg	BT	36.00	.1440	.0360	11	10	3	8	10	31	1,116.00
6505-564-1551	ISMELIN TABS, 25mg, 1000#	BT	64.00	.6400	.0640	2	4	4	3	5	17	1,071.00
6505-584-2895	APREBUCE TABS, 25mg, 1000#	BT	15.70	.0471	.0157	9	8	11	16	18	53	832.10
6505-680-2326	PERITRATE TABS, 80mg, 100#	BT	16.50	.0660	.0165	13	9	10	9	13	41	676.50
P003-166-4541	QUINIDIN TABS, 200s	BT	25.40	.6144	.0254	0	0	3	6	12	21	537.60
6505-116-7750	DICOUIN, 0.2mg, 100#	BT	1.38	.6038	.0038	306	288	336	288	276	1188	451.44
6505-761-1506	ISORDIL TABS, 10mg, 500s	BT	9.63	.0772	.0193	116	9	9	7	19	44	423.72
P008-300 37-0	APRESOLINE HCL TABS, 10mg, 1000#	BT	12.80	.0512	.0128	4	3	6	9	9	27	345.60
6505-072-9346	ISORDIL TABS, 40mg, 100#	BT	2.15	.1704	.0215	49	30	18	24	12	84	178.92
6505-584-4297	PERITRATE TABS, 20mg, 500#	BT	9.69	.0772	.0193	5	2	1	7	4	14	135.66
6505-619-8620	NITROGLYCERIN, NG, 6mg, 100#	BT	24	.0024	.0024	158	130	130	100	148	508	121.92

GROUP 1 - DRUGS USED IN CARDIAC THERAPY

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUES	UNIT COST	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6503-687-3662	NITROGLYCERIN, NTC, 3mg, 100's	BT	.33	.0033	70	1	70	76	140	287	\$ 94.71
6505-290-0022	RESERPINE TABS, 0.25mg, 1000's	BT	1.45	.0014	26	8	16	19	13	56	81.20
6505-597-7341	PERITRATE TABS, 10mg, 500's	BT	5.00	.0500	12	0	0	0	4	4	20.00
6505-116-7685	DIGOXIN, 0.1mg, 100's	BT	.31	.0031	0	0	2	12	30	44	13.64

GROUP 2 - TRANQUILIZERS - ANTI-ANXIETY

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUES	UNIT COST	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-783-7218	VALIUM TABS, 5mg, 500's	BT	19.30	.1544	171	220	383	364	352	1179	22,754.70
6505-059-9017	LIBRIUM CAPS, 10mg, 500's	BT	14.00	.1120	120	114	132	180	116	542	7,588.00
6505-579-9717	ATAPAX TABS, 25mg, 500's	BT	16.20	.0972	18	27	27	26	23	103	1,668.60
6505-550-8464	MEPM ANAESTH TABS, 0.4gm, 500's	BT	1.76	.0035	72	84	72	64	91	331	382.56
6505-570-9715	ALAXIN TABS, 10mg, 500's	BT	7.57	.0453	20	16	5	14	12	47	555.79

GROUP 3 - ANTACIDS

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUES	UNIT COST	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-890-2218	MYLANTA LIQUID, 5 oz	BT	11	.06	6992	9380	6008	11128	4728	31244	3,436.84
P008-811-7547	GASTROCON TAB, 100's	BT	1.85	.1480	54	240	252	264	354	1110	2,053.50
6505-105-8915	GELUSIL LIQUID	BT	.56	.10	228	240	400	168	473	1281	717.36

Total \$1,306

GROUP 4 - ANTI - DIARRHEA

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-074-4702	LONOTIL TAB, 500s	BT	\$19.90	\$ 1592	.0398	46	14	41	24	32	111	\$2,208.90
6505-299-9678	KAOPECTATE, 1 gal	BT	2.81	.04	2.81/bt	9	6	1	7	8	22	61.82
								Total	\$497	\$659		

GROUP 5 - ANTIDEPRESSANTS

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-082-2659	FLAVIL TAB, 25mg, 100s	BT	\$5.18	\$ 2072	\$.0518	288	19	228	252	328	900	\$ 4,662.00
6505-584-3179	RITALIN TAB, 10mg, 1000s	BT	44.97	2694	.0449	12	12	15	20	15	62	2,788.14
F006-953-6066	STANEQUAN, 50mg, 100s	BT	12.55	3765	.1255	6	12	6	18	21	57	715.35
F006-953-5066	STANEQUAN, 25mg, 100s, CAPS	BT	9.50	2850	.0950	0	6	12	26	12	66	627.00
6505-079-7453	ELAVIL, 10mg, TAB, 100s	BT	2.98	1192	.0298	36	50	34	60	24	168	500.64
6505-106-6715	AMFETAMINE TAB, 5mg, 100s	BT	.20	6120	.0020	101	60	84	108	139	391	78.20
								Total	\$2,973	\$2,332		

GROUP 6 - ANTI LEUKEMIA MEDICATION

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-903-9990	ONCOVIN INJ, 5mg	BX	\$25.60	\$3.65	\$ 25.60	19	14	18	17	16	65	\$ 1,664.00
F008-705-0001	CYTOXAN INJ, 100mg, 100s	VI	1.51	6.04-12.08	1.51/v1	0	144	0	312	0	456	688.56
								Total	\$906	\$409		

GROUP 7 - ANTI-CHOLESTEROL

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER CAP OR OTHER UNIT	ISSUES JAN TO MAR '71	ISSUES APR TO JUNE '71	ISSUES JULY TO SEP '71	ISSUES OCT TO DEC '71	ISSUES JAN '72 TO MAR '72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-098-5872	ATROMID S CAPS 100s	BT	85.04	.2016	.0504	120	132	108	120	138	558	\$1,074.32
								Total 5907		\$1,194		

GROUP 8 - ANTI-CHOLESTEROL

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER CAP OR OTHER UNIT	ISSUES JAN TO MAR '71	ISSUES APR TO JUNE '71	ISSUES JULY TO SEP '71	ISSUES OCT TO DEC '71	ISSUES JAN '72 TO MAR '72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-098-5872	ATROMID S CAPS 100s	BT	85.04	.2016	.0504	120	132	108	120	138	558	\$1,074.32
6505-098-5872	ATROMID S CAPS 100s	BT	85.04	.2016	.0504	120	132	108	120	138	558	\$1,074.32
6505-098-5872	ATROMID S CAPS 100s	BT	85.04	.2016	.0504	120	132	108	120	138	558	\$1,074.32
6505-098-5872	ATROMID S CAPS 100s	BT	85.04	.2016	.0504	120	132	108	120	138	558	\$1,074.32

GROUP 9 - ANTI-CHOLESTEROL

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER CAP OR OTHER UNIT	ISSUES JAN TO MAR '71	ISSUES APR TO JUNE '71	ISSUES JULY TO SEP '71	ISSUES OCT TO DEC '71	ISSUES JAN '72 TO MAR '72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-023-4799	TOFRANIL TAB 25mg, 100s	BT	85.20	.2080	.0520	180	150	180	156	108	594	\$3,088.80
6505-890-1538	MELLARIL TAB, 20mg, 1000s	BT	36.50	.1095	.0365	8	9	14	11	10	44	1,606.00
6505-022-1338	STELAZINE TAB, 1000s	BT	57.00	.0570	.0140	7	7	4	8	4	23	1,311.00
6505-022-1326	THORAZINE TAB, 1000s, 25gm	BT	23.30	.0932	.0233	9	17	12	16	10	55	1,281.50
6505-689-9245	MELLARIL TAB, 50mg, 1000s	BT	44.90	.1347	.0449	2	3	5	6	7	21	942.90
6505-890-1537	MELLARIL TAB, 100mg, 1000s	BT	54.00	.1620	.0540	4	5	3	4	3	15	810.00
6505-022-1337	STELAZINE TAB, 1000s, 2 mg	BT	48.40	.0484	.0484	5	3	3	6	4	15	774.40
6505-022-1323	THORAZINE, 75mg, hcl, CAP, 500s	BT	30.70	.1228	.0614	2	3	4	3	4	14	429.80

GROUP 9 - ANTIPSYCHOTIC

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES		ISSUES		ISSUES		TOTAL ANNUAL COST
						MAR 71	JUNE 71	JULY 71	SEP 71	OCT 71	JAN 72	
6505-584-3669	TRILAFON TAB, 500s	BT	23.80	.1428	.0476	6	4	4	8	0	4	\$ 380.80
6505-050-3078	MELLARIL TAB, 10mg, 1000s	BT	27.30	.0819	.0273	2	4	1	1	4	4	354.90
6505-816-7239	HALDOL TAB, 2 mg, 1000s	BT	87.00	.1740	.0870	0	0	0	3	1	0	348.00
6505-935-9820	THORAZINE TAB, 100mg, 1000s	BT	33.90	.1017	.0339	2	2	2	5	1	2	339.00
6505-022-1336	STELAZINE TAB, 1000s, 1 mg	BT	43.80	.0438-.0876	.0438	4	5	0	0	1	0	262.80
						Total \$3,183 \$2,452						

GROUP 10 - ANTI - ANEMICS

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL COST	TOTAL ISSUES
6505-074-2931	FURRO SQUELS 1000s	BT	\$20.20	.0202	.0202	39	49	49	39	33	\$3,434.00	170
6505-119-3300	FFEROUS SULFATE, 5 gr	BT	1.12	.0011	.0011	16	37	27	4	7	84.00	75
Total \$792 \$676												

GROUP 11 - DIURETICS

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL COST	TOTAL ISSUES
6505-062-3336	LASIX TAB, 100s	BT	\$9.05	.0605	.0605	105	153	108	120	150	\$3,212.55	531
6505-901-0043	DIAZIDE CAPS, 1000s	BT	45.40	.0454	.0454	Total issue experience shown under cardiac therapy medication						
6505-889-7929	ORETIC TABS, 1000s	BT	5.99	.0060	.0060	Items used as Diuretics and as cardiac therapy medication						
						Local \$726 \$907						

Total issue experience shown under cardiac therapy medication items used as Diuretics and as cardiac therapy medication.

GROUP 12 - ANTIBIOTICS

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES					TOTAL ANNUAL COST	
						MAR 71	APR TO JUNE 71	JULY TO SEP 71	OCT TO DEC 71	MAR 72		
6505-656-1612	V-CILLIN K TAB, 250mg, 100s	BT	\$2.25	.0900	.0225	606	552	664	516	492	2224	\$5,004.00
6505-770-8343	AMPICILLIN CAP, 250mg, 100s	BT	4.18	.1672	.0418	78	283	248	316	168	1015	4,242.70
F000-902-2502	CLEOCIN CAP, 150mg, 100s	BT	17.28	.6912	.1728	36	41	70	36	54	201	3,473.28
6505-900-2146	KEFLIN INJ, 1 gm	BT	2.29	27.48	2.29 per gm	482	144	204	504	660	1512	3,462.48
6505-286-7302	TEBRACILLINE TAB, 250mg, 100s	BT	73	.0292	.0073	912	1084	1044	1116	1488	4732	3,454.36
F003-500-0810	MACRODANTIN 50mg, 1000s	BT	85.00	.3400- .6800	.0850	7	4	7	12	10	33	2,805.00
6505-181-7180	GARAMYCIN INJ, 40mg/cc, 2cc	BT	3.88	11.64- 58.20	3.8800/2cc	6	30	120	426	144	720	2,793.60
6505-190-1024	KEFLEX CAPS, 250mg, 100s	BT	33.25	1.3300	.3325	0	0	0	24	39	63	2,094.75
6505-660-1676	KANTREX INJ, 3cc	BT	3.26	9.78- 13.04	3.2600/3cc	72	12	126	192	263	593	1,933.18
6505-662-9790	ERYTHROMICIN TAB .25gm, 100s	BT	2.71	1.088	.0272	210	186	120	192	204	702	1,902.42
6505-869-4178	KEFLIN INJ, 4gm	PG	8.74	4.37- 8.74	8.7400/4gm	0	33	6	62	115	216	1,887.84
6505-226-1202	PROSTAPHLIN CAPS 48s	BT	3.98	6632- 9948	.0829	78	90	90	138	106	424	1,687.52
6505-935-0535	AMPICILLIN ORAL SUSP	BT	1.49	.1490	1.490/bt	0	120	60	264	408	852	1,269.48
6505-181-7635	AMPICILLIN CAP, 1000s	BT	45.10	1804-	0451	0	0	0	15	11	26	1,172.60
F000-204-0924(Del)	KEFLEX CAP, 250mg, 24s	BT	8.40	.4000	.3500	6	30	6	90	0	126	1,058.40
6505-085-4972	FURADANTIN TAB, 100mg, 1000s	BT	23.10	.0924	.0231	11	10	11	5	6	37	749.20
6505-484-1615	PROSTAPHLIN ORAL SOLN	BT	3.00	.0830	.0830	15	10	12	36	6	64	192.00
Total						\$12,430	\$12,143					

GROUP 13 - ANTI - LACTATION

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-823-7903	DELADUMONE OB INJ 2cc	BT	\$1.93	\$1.93		170	140	140	225	60	565	\$1,090.45
								Total	\$434	\$115		

GROUP 14 - BIRTH CONTROL/3 MONTHS

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER 3 MO.	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-935-5836	OVULEN 21 TAB, 63s	BX	\$1.35	\$1.35		524	874	650	700	700	2924	\$3,947.40
6505-145-0309	MORINYL 1+80 TAB 63s	BX	.81	.81		452	732	696	744	732	2904	2,352.24
6505-145-0429	OVRAL TAB 63s	BX	1.61	1.61		281	316	416	314	410	1456	2,344.16
6505-937-1758	ORACON TAB, 63s	BX	2.05	2.05		288	228	288	264	144	924	1,894.20
6505-113-3725	NOKINYL 2mg, TAB, 60s	BX	.99	.99		360	288	208	204	192	892	883.08
6505-455-9957	NORLESTRIN TAB, 63s	BX	1.28	1.28		0	48	108	71	37	264	337.92
								Total	\$2,887	\$2,730		

GROUP 15 - FOOD

6505-190-2141	VIVONEX 100 6s VANILLA	BX	8.00	8.00		0	0	0	70	18	88	\$704.00
								Total	\$560	\$144		

GROUP 16 - ANTI - DIABETES

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-982-9069	ORINASE TAB 200s	BT	\$ 5.99	.0897	.0299	120	132	174	180	150	636	\$ 3,809.64
6505-724-6331	DBI-TD CAP 50mg, 1000s	BT	68.00	.0680	.0680	16	10	17	17	9	53	3,604.00
6505-105-5842	TOLINASE, 250mg, 1000s	BT	65.00	.0650	.0650	50	0	2	0	3	5	325.00
								Total	\$2,234	\$1,705		

GROUP 17 - ANTI - GOUT

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL COST
6505-998-4381	ZYLOPRIM TABS, 100mg, 100s	BT	4.83	.1932	.0483	186	168	203	204	204	779 \$3,762.57
6505-181-8387	BENEMID TABS, 1000s	BT	40.70	.1221	.0407	8	6	9	12	12	39 1,587.30
Total \$1,473											

GROUP 18 - TOPICAL PREPARATIONS/15GMS.

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL COST
6505-961-5504	MYCLOG, 15gm	TU	1.69	1.69		362	396	441	708	408	1953 \$3,300.57
6505-926-8927	HYDROCORT SUSP, 60cc	BT	1.23	1.23		927	654	648	504	498	2304 2,833.92
F008-500-FE04	VALISONE, 15gm	TU	1.80	1.80		210	396	229	108	258	991 1,783.80
6505-064-3940	TRIANCINOLO ACE 5 lb.	JR	37.50		37.50/jr	11	12	7	10	14	43 1,612.50
6505-682-8194	ARISTOCORT CR, 15gm	TU	.76	.76		108	180	204	420	426	1230 934.80
F013-700-7506	RETIN A DROPS 60cc	BT	3.54		3.54	0	0	0	0	240	240 849.60
F008-815-5058	NITROBID, 2.5mg, 1000s	BT	37.50	.1125	.0375	6	4	6	4	5	19 712.50
6505-890-1554	CORDRAN CREAM, 15gm	TU	1.02	1.02		132	96	132	312	72	612 624.24
6505-926-4763	NEO-POLYGIN, 15gm	TU	.56	.56		180	96	264	300	24	684 383.04
6505-159-6625	EACTRACIN 1-2 12s	EX	1.71	.14		45	42	46	35	33	156 266.76
F000-20W-1428	CORDRAN TAPE 3X80	RL	3.96		3.96	0	0	0	18	42	60 237.60
6505-890-2013	MYCOSTATIN 15gm	TU	.97	.97		36	96	36	48	60	240 232.80
6505-926-2095	HYDROCORTISONE 1%, 1 oz	TU	.38	.19		0	168	132	120	132	552 209.76
F008-815-5158	NITROBID 6.5mg, 1000s	BT	69.80	.2094	.0698	0	0	0	3	0	3 209.40
6505-905-9041	SYNALAR CREAM 425 gm	JR	12.90	.4607		0	0	2	2	2	6 77.40
6505-299-3740	BACTRACIN NEOMYCIN 1-2 oz	TU	.18	.18		62	120	144	78	24	366 65.88
6505-926-2097	HYDROCORTISONE 0.5% 1 oz	TU	.32	.16		0	12	0	60	72	144 46.08
Total \$3,833 \$4,123											

GROUP 19 - ANALGESICS

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	UNIT COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-926-2154	INDOCIN CAP 100s	BT	\$6.27	.1881	.0627	234	276	271	276	276	1099	6,890.73
5505-784-4976	DARVON COMPD ASPIRIN 500s	BT	13.70	.1096	.0274	117	109	91	96	50	356	4,877.20
6505-958-2364	DARVON 65 mg, 500s	BT	13.30	.1064	.0266	80	14	75	138	68	295	3,923.50
5505-786-8747	TANDEARIL TAB 1000s	BT	51.00	.204	.0510	6	16	19	13	10	58	2,958.00
6505-660-1601	KORAXIN TAB, 500s	BT	18.60	.2972	.0372	0	6	50	36	54	146	2,715.60
7003-152-0874	PHENAPHEN CAPS 1000s	BT	14.40	.0560	.0140	12	13	40	30	31	114	1,641.60
5505-180-6030	VALMIN TAB, 100s	BT	5.48	.3288	.0548	12	69	50	120	54	293	1,605.64
6505-484-6183	FENTANYL PROPRIETOL INJ, 12s	PG	14.70	1.2250	1.2250/ct	0	12	16	34	44	106	1,558.20
6505-617-2228	BUTAZOLIDIN TAB, 100s	BT	3.83	.1532	.0383	96	93	58	192	58	401	1,535.83
6505-962-4375	FLORINAL APC TAB, 1000s	BT	9.58	.0383	.0095	20	36	32	46	44	158	1,513.64
6505-985-7301	TYLENOL TAB, 1000s	BT	2.48	.0099	.0024	72	107	111	136	172	526	1,304.48
F003-162-5870	PHENAPHEN CAPS, #3, 500s	BT	12.00	.0960	.0240	6	13	24	35	23	93	1,116.00
5505-114-8985	CODEINE TAB, 32mg, 100s	BT	1.81	.0724	.0181	24	30	48	56	48	162	293.22
5505-153-8750	ASPIRIN TAB, .324 gm, 1000s	BT	1.20	.0096	.0012	15	14	21	36	19	90	108.00
6505-100-6245	APC's TAB, 1000s	BT	1.98	.0019	.0158	9	9	9	9	4	31	61.38
								Total	\$9,838	\$7,824		

GROUP 20 - ANTIHISTAMINE

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-655-8460	CHLORINETON, 8mg, 1000s	BT	10.00	.0200	.0100	24	22	26	37	18	103	1,030.00
6008-108-6775	PSEUDOPHED TABS, 60mg, 1000	BT	29.04	.1160	.0290	0	0	0	0	30	30	871.20
6505-299-8610	CHLORINETON TAB, 4mg, 1000s	BT	6.64	.0265	.0066	24	34	20	17	55	126	836.64
6505-584-3277	PHENEGAN TAB, 1000s	BT	20.30	.0406	.0203	12	7	13	6	2	28	568.40
6505-890-1112	DIMETAPP MAL TAB, 500s	BT	17.40	.5600	.0280	10	7	7	4	2	20	348.00
6505-582-4868	BENADRYL CAP, 1000s	BT	3.71	.0148	.0037	42	12	24	23	27	86	319.06
6505-148-9000	PYRIBENZANTINE TAB, 50mg, 1000s	BT	6.89	.0137	.0068	2	0	0	0	0	2	13.78
Total \$759 \$1,591												

GROUP 21 - DECONGESTION - ANTIHISTAMINE

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-890-1891	DIMEAPP EX TAB, 500s	BT	\$19.00	.0760	.0380	78	94	102	138	126	460	\$ 8,740.00
6505-014-1028	ORNADE CAP, 500s	BT	29.90	.1196	.0598	75	34	50	47	42	173	5,172.70
6505-926-9019	DRIXORAL, 100s	BT	5.25	.1150	.0525	252	232	204	204	342	982	5,155.50
6505-753-9615	ACTIFIED TAB, 100s	BT	1.50	.0450	.0150	984	880	624	732	900	3136	4,704.00
6505-982-9594	NOVAHISTINE LP, 250s	BT	8.29	.1320	.0330	94	96	93	90	48	327	2,710.83
6505-890-1902	CO PYRINOL, 1000s	BT	15.40	.0770	.0154	3	3	20	3	6	32	492.80
Total \$6,988 \$7,285												

GROUP 22 - LIQUID COLD PREPS/4 oz.

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST TAB/CAP OR OTHER UNIT	ISSUE JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-926-9026	PHENERGAN EXP 118cc	BT	\$.45	.45		872	880	396	840	1346	3462	\$1,557.90
6505-935-4095	DIMETAPP ELIX 118cc	BT	.47	.47		768	528	456	720	968	2672	1,255.84
5505-782-6761	ACTIFED SYR 4 FL OZ	BT	.57	.57		504	444	168	312	348	1272	725.04
6505-064-8765	ROBITUSSIN 118cc	BT	.15	.15		872	304	456	872	1392	3024	453.60
6505-926-8926	NOVAHISTINE EXP 4 FL OZ	BT	.43	.43		552	252	0	204	509	1045	449.35
6505-935-0987	NOVAHISTINE ELIX 118cc	BT	.33	.33		384	36	144	108	501	789	260.37
6505-926-8985	ROBITUSSIN 4 FL OZ	BT	.31	.31		280	0	84	48	96	228	70.68
6505-890-1911	CO PYRINOL SUSP 4/3cc	BT	2.19	.55		8	4	6	0	6	16	35.04
Total \$1,163 \$1,929												

GROUP 23 - LAXATIVES

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST TAB/CAP OR OTHER UNIT	ISSUE JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-890-1627	SUREFAX CAPS, 1000s	BT	\$31.50	.0315	.0315	21	25	24	26	30	105	\$3,307.50
6505-050-4567	METABUCIL 14 oz	CN	.97	.0388	.0692/oz	408	430	554	588	516	2088	2,025.36
Total \$1,389 \$1,445												

GROUP 24 - MISCELLANEOUS

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST TAB/CAP OR OTHER UNIT	ISSUE JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-890-1840	METRONIDAZOLE TAB, 250s	BT	23.60	.2832	.0944	31	7	8	14	22	51	1,203.60
6505-411-6400	ERGOT-BELLA, PHEN TAB, 1000s	BT	48.80	.0976	.0488	8	1	4	8	10	21	1,024.80
F000-676-3413	DECADRON TURBINAINE	EA	3.64		3.64	85	102	48	42	84	276	1,000.64

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GROUP 24 - MISC DRUGS

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-880-1775	METHYSEB MALE TAB, 500s	BT	56.00	.3360	.1120	3	2	3	3	9	17	952.00
F002-140-5070	DONNASEP TABS, 500s	BT	22.00	.3520	.0440	2	10	6	10	10	36	792.00
Total \$1,261 \$2,036												

GROUP 25 - HORMONE

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-151-2728	FREEMARTIN TABS, 500s	BT	\$10.10	\$.0202	\$.0202	138	213	129	174	225	741	\$7,484.10
Total \$1,757 \$ 2,272												

GROUP 26 - ANTI - ASHUNATIC

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-931-3329	ETA & HYDROXY HCL TAB, 500s	BT	16.30	.1404	.0426	18	14	19	26	36	95	1,548.50
Total \$423 \$586												

GROUP 27 - MUSCULAREXANTS

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	COST PER DAY	COST PER TAB/CAP OR OTHER UNIT	ISSUES JAN TO MAR 71	ISSUES APR TO JUNE 71	ISSUES JULY TO SEP 71	ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
6505-660-1601	ROBAXIN TABS, .56mm, 500s	BT	\$18.60	\$.2976	\$.0372	30	6	50	36	54	146	\$2,715.60
F008-902-3550	NORGESTIC TABS, 500s	BT	20.00	.3200	.0400	0	0	18	12	17	47	940.00
Total \$909 \$1,344												

GROUP 28 - OTHER HIGH COST MATERIAL ITEMS

STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	ISSUES					ISSUES OCT TO DEC 71	ISSUES JAN TO MAR 72	TOTAL ANNUAL ISSUES	TOTAL ANNUAL COST
				JAN TO MAR 71	APR TO JUNE 71	JULY TO SEP 71	OCT TO DEC 71	JAN TO MAR 72				
6525-C96-50AC	X-RAY FILM, CRONEX 4, 14X17, 500s	CS	273.55	23	20	18	23	22	83			\$22,704.65
6505-299-6179	ALBUMIN, NORMAL, HUMAN SERUM, 100cc	CN	24.70	88	36	129	16	68	249			6,150.30
6505-116-4600	DEXTROSE INJ, 5%, 1000cc, 6s	BX	5.63	294	312	269	246	222	1049			5,905.87
6525-C95-50AD	X-RAY FILM, 10X12, 500s	CS	141.04	11	9	13	8	11	41			5,787.64
6525-C95-00AC	X-RAY FILM, 6X10, 500s	CS	96.27	20	18	10	12	13	53			5,102.31
6532-180-1366	CONN, OPER SURG, LARGE DISP	PG	40.32	0	0	18	50	50	116			4,757.76
6532-421-7828	CONN, X-RAY, PT EXAM, DISP, 100s	PG	26.30	34	41	48	49	40	178			4,681.40
6530-104-8711	BASIC SURGICAL PACK, 10s	PG	44.17	0	10	30	35	22	97			4,284.49
6503-L96-0640	LIQUID OXYGEN, BULK	CO	77.00	14	14	10	10	13	47			3,619.00
6515-226-7692	GLOVE, PATIENT EXAM, 1C, 100s	PG	6.38	105	132	113	148	135	528			3,368.64
6532-190-6365	CONN, OPER SURG, DISP	PG	42.62	0	0	8	32	38	78			3,324.36
6505-C36-94GZ	ANTI HUMAN COMBS, 10cc, 15s	PG	221.90	0	1	5	5	3	14			3,106.60
6505-854-2504	HALOTHANE, 125cc	BT	17.70	24	48	36	39	48	171			3,026.70
6505-681-5442	DEX-RINGER INJ, 1000cc, 6s	BX	5.88	162	176	133	94	111	514			3,022.32
6525-150-0564	TUBE, X RAY	EA	999.99	0	0	1	2	0	3			2,999.97
6510-203-8448	SPONGE, SURG, 4X4, 200s	PG	1.43	576	600	615	380	483	2078			2,971.54
6510-074-4579	SPONGE, SURG, 4X4, 1200s	PG	15.80	38	38	52	46	48	184			2,907.20
6515-782-6474	GLOVE, SURG, DISP, SZ 7 1/2, 36s	PG	7.12	112	86	88	109	115	398			2,833.76
7210-717-2000	SHEET, BED COTTON, WHITE	EA	2.00	192	192	240	576	408	1416			2,832.00
8105-655-8286	BAG, PLASTIC, 19X14X38", 125s	BX	5.10	114	101	133	129	134	497			2,534.70

13.

COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY 9063

GROUP 28-- OTHER HIGH COST MATERIAL ITEMS												
STOCK NUMBER	NOMENCLATURE	UNIT OF ISSUE	UNIT COST	ISSUES JAN TO MAR 71		ISSUES APR TO JUNE 71		ISSUES SEP 71 TO DEC 71		ISSUES JAN 72 TO MAR 72		TOTAL ANNUAL COST
				JAN 71	MAR 71	APR 71	JUNE 71	SEP 71	DEC 71	JAN 72	MAR 72	
6530-110-8281	DRAPe SURG DISP, GREEN, HALF SH, 24s	PG	22.70	0	10	32	24	38	104			\$2,360.80
6505-420-9582	GLOBULIN RHO D INJUNE	PG	33.33	19	17	25	12	15	69			2,299.77
6505-926-2206	TEST STRIP-CH UR BL 100	BT	8.62	70	66	66	72	57	251			2,248.82
6515-007-70HL	CATHETER, 16 GA X 2", ANGIO, 50s	BX	47.00	7	14	9	10	14	47			2,709.00
6525-C11-55AD	DEVELOPER REPLENISH CRONEX 20	EA	30.77	20	25	12	18	14	59			2,123.13
6515-721-954C	INTRAVENOUS INJ SET, 20 GA, DISP, 48c	PG	26.88	0	0	29	22	27	78			2,096.64
6505-190-0630	NITROUS OXIDE, 2000 gal	CY	24.00	20	22	18	24	22	86			2,064.00
6525-L50-0599	FILM, X RAY 11X14", 500s	CS	179.25	0	3	2	3	3	11			1,971.75
6510-202-8530	PACK, GAUZE, ABD 8X36", 100s	PG	24.80	20	20	16	21	20	77			1,909.60
6515-782-6475	GLOVES, SURG, DISP SZ 8, 36s	PG	7.12	67	61	69	72	64	266			1,893.92
6505-754-0374	POVIDONE IOD SOL 1 gal	BT	10.40	42	50	38	35	48	171			1,778.40
6530-145-0254	SURGICAL PACK, DISP, LAPARO, 10s	PG	47.70	54	0	15	15	7	37			1,764.90
6510-200-7400	BANDAGE, COTTON, ELASTIC, 12s	PG	5.88	66	64	61	86	82	293			1,722.84
6505-145-0180	RUFELLA VIRUS VACCINE, 10 doses	BX	12.40	0	0	12	50	70	132			1,636.80
6515-150-1668	BURTHAL PLEX 100cc, 12s	CS	26.78	1	17	12	13	19	61			1,633.58
6525-C19-25AC	FIXER, REPLENISH TO MAKE 20 GAL	EA	11.81	31	36	23	41	33	133			1,570.73
6515-C69-30GU	SYRINGE, 2 1/2cc, 100s	BX	7.08	25	45	93	62	5	205			1,451.40
6640-518-5462	TUBE BIOLOGICAL, CULTURE, DISP, 100s	PG	11.80	0	0	13	38	47	98			1,156.40
F000-307-0750	RENORAFIN 60%, 50cc, 25s	BX	72.75	0	0	4	2	7	13			945.75
6525-721-9816	CASSETTE, RAD, FILM, 14X17	EA	66.00	0	0	0	7	0	7			462.00
				14.		Total		\$36,353				

NH71-28-HSR:mc
6700
Serial

From: Commanding Officer, U.S. Naval Hospital, Camp Pendleton, Calif. 920
TO: Chief, Bureau of Medicine and Surgery (Code 3113)

SUBJ: Command professional relationship with representatives of
pharmaceutical manufacturers; suggested format for

Encl: (1) Photographs of staff attendance at medical exhibits (in duplicate)

1. Background. Detailmen can be of great assistance to the professional staff of any medical activity, but on the other hand they can also be a source of bother if they are not provided with a set of "ground rule" by which to operate. With very few exceptions, "ground rules" are welcomed by the detailmen, as well as by the staff in that product information is passed on smoothly, and at such times as are convenient to all concerned. This hospital has such a set of rules, which have been proved over a period of time, and are submitted as a possible aid to other activities who might find their present system unsatisfactory.

2. Method.

a. All detailmen are required to check-in at the Pharmacy before visiting any other area of the hospital.

b. Explicit instructions are personally outlined by the Chief of Pharmacy Service:

(1) The Pharmacy must be made aware of the items that are to be detailed that day to the staff. In the case of new products, complete literature must be on file in the Pharmacy before any detailing is done. This is to provide a ready reference for the staff should questions arise.

(b) Only a very small quantity of samples are left with the physician. Sampling in quantity is done only with the Pharmacy. This allows the Pharmacy to establish usage rates should the item be requested for stock, and permits a replenishment of the samples should the physician wish to extend his clinical evaluation of an item.

(3) Each detailman is briefed as to the best hours to visit each service, and that he must detail the Chief of Service prior to detailing the individual physicians of that service.

(4) Normally, appointments are not made; however, the Pharmacy does phone an individual physician should the time of the visit be during the busiest hours of his day.

(Published in U. S. Navy Medical News Letter 30 April 1945
Vol. 45, No. 8)

(5) Detailmen are informed as to which days of the week other detailmen are usually on board, to help space out their visits to the hospital.

(6) The Pharmacy maintains a company card file of inquiries and when the detailmen checks in, he is informed of these inquiries and directed to the individual concerned.

3. Hospital Exhibits.

a. Through trial and error, this hospital has developed a method of permitting the various pharmaceutical companies to display the latest trends in therapeutics to the staff of this hospital.

b. To provide a relaxing atmosphere and traffic free space, the lounge of the BOQ was made available for these exhibits.

c. The exhibits are held on the third Tuesday of each month, a day determined to be most advantageous to all. The hours extend from 1100 to 1400, to give sufficient time for all personnel to attend prior to, during, and after lunch.

d. The exhibits are given wide publicity through individual notices to the staff and notices published in the Hospital Daily Bulletin. A form letter is mailed to each of the representatives who normally call on this hospital and others which the command feels could benefit our staff. Because of the numerous medical activities within the Camp Pendleton complex, each is notified monthly of the pending exhibits.

e. Although this arrangement was made primarily for the medical and dental officers, and the pharmaceutical representatives we found that companies with allied products, other than pharmaceuticals, were requesting permission to exhibit their products. In addition, the Nurse Corps officers showed great enthusiasm for the opportunity to procure drug literature and ask questions concerning the problems they experience in their field. Through the visits of the Nursing Educational Coordinator, arrangements were made for non-commercial lectures to be presented to staff personnel by some of the pharmaceutical representatives.

f. The attendance by both the companies and staff has been gratifying. For instance, in November, 28 companies exhibited their products to over 150 officers of the Medical Department.

g. These exhibits have been enthusiastically received by all hands, and letters have been received from all of the companies expressing their gratitude as they felt that our method provided the best format they had experienced for detailing pharmaceuticals.

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h. Photographs taken at one of the exhibits are included as enclosure (1).

4. Conclusions.

a. The responsibility for coordinating the relationship of the detailmen with the staff must lay with the Pharmacy.

b. Established ground rules provide a harmonious and beneficial atmosphere for detailing.

c. The exhibit method of detailing takes less of the medical officer's time; he can see 20 to 30 representatives in one or two hours.

d. The set date allows the staff to plan for the meeting.

e. By having groups of medical officers inquiring about items, they seem to stimulate questions they individually may not think of, and hear comments they might not otherwise hear.

f. The procedure allows the medical and dental officers to be selective and see early the representatives who have items in their particular fields of interest.

THOMAS J. CANTY

APPENDIX V



REPORT TO THE CONGRESS

Lack Of Authority
Limits Consumer Protection:
Problems In Identifying And Removing
From The Market Products
Which Violate The Law . B-164037(2)

Food and Drug Administration
Department of Health, Education,
and Welfare

*BY THE COMPTROLLER GENERAL
OF THE UNITED STATES*



COMPTROLLER GENERAL OF THE UNITED STATES
WASHINGTON, D.C. 20548

B-164031(2)

To the President of the Senate and the
Speaker of the House of Representatives

This is our report entitled "Lack of Authority Limits Consumer Protection: Problems in Identifying and Removing from the Market Products which Violate the Law." The Food and Drug Administration, Department of Health, Education, and Welfare, is responsible for protecting the consumer from violative products.

Our review was made pursuant to the Budget and Accounting Act, 1921 (31 U.S.C. 53), and the Accounting and Auditing Act of 1950 (31 U.S.C. 67).

Copies of this report are being sent to the Director, Office of Management and Budget, and to the Secretary of Health, Education, and Welfare.

A handwritten signature in dark ink, appearing to read "A. J. K. Miller", is written over the typed name.

Acting Comptroller General
of the United States

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ABBREVIATIONS

EPA	Environmental Protection Agency
FDA	Food and Drug Administration
FD&C Act	Federal Food, Drug, and Cosmetic Act
GAO	General Accounting Office
HEW	Department of Health, Education, and Welfare
USDA	United States Department of Agriculture

COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY 9071

COMPTROLLER GENERAL'S
REPORT TO THE CONGRESS

LACK OF AUTHORITY LIMITS CONSUMER
PROTECTION: PROBLEMS IN IDENTIFYING
AND REMOVING FROM THE MARKET
PRODUCTS WHICH VIOLATE THE LAW
Food and Drug Administration
Department of Health, Education,
and Welfare B-164031(2)

D I G E S T

WHY THE REVIEW WAS MADE

The Federal Food, Drug, and Cosmetic Act and the Federal Hazardous Substances Act were enacted to protect American consumers from harmful and potentially harmful commercial products. They were intended specifically to protect consumers from products moved in interstate commerce to market, which are:

Adulterated--defective either in their ingredients or as a result of processing and packing;

Misbranded--having false or misleading labels or packaging; or

Illegally marketed--not federally approved for safety and efficacy, such as new drugs, as required by law.

Congress placed responsibility for enforcing these laws on the Food and Drug Administration (FDA), an agency in the Department of Health, Education, and Welfare (HEW).

The General Accounting Office (GAO) examined and evaluated FDA's actions in fulfilling the intent of the legislation. GAO also evaluated the authority provided FDA under these laws to protect consumers.

Background

By inspecting manufacturing practices and by testing finished products, FDA becomes aware of those that are adulterated, misbranded, illegally marketed, potentially harmful, or suspected of being so. These products are referred to in this digest as "defective" but in the report as "violative," the technical term. Once it is determined that any of these conditions exists, FDA takes steps to remove the product or products from the market. However, the effectiveness of FDA depends largely on its ability to act promptly if consumers are to be protected. It is here that GAO found problems.

FINDINGS AND CONCLUSIONS

FDA has had difficulties in removing defective products from markets because it lacks the authority to

--obtain access to records needed to identify, examine, and remove products suspected or known to be defective (as defined above);

--detain products from interstate shipment until determination can be made whether they should be removed from the market; and

--take steps required to withdraw them.

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Access to records

To carry out what the laws intend--provide consumer protection--FDA must be able to identify and remove products suspected or known to be defective from the market. The first step is for FDA to obtain, from manufacturers' records, information that will assist in identifying and locating such products.

However, with the exception of prescription drugs, present law does not require firms to provide FDA access to this information. Most firms cooperate with FDA in making necessary records available, but many have been unwilling to do so. Consequently FDA sometimes is unable to obtain information essential to identifying and removing defective products from the market. (See p. 9.)

During fiscal years 1969 through 1971, 3,300 firms refused to cooperate with requests by FDA inspectors on over 10,000 occasions, including about 7,900 denials of recorded information.

A company which processed walnuts refused to provide FDA with access to its shipping records, even though FDA had found that some of that company's walnuts were contaminated and had told its officials so. Their refusal to grant FDA access to shipping records delayed removal of the contaminated product at one location, prevented removal of the walnuts from other locations, and exposed consumers to needless risk. (See p. 11.)

GAO believes that FDA should have sufficient authority to review records for all products where there

are questions of defectiveness. (See p. 16.)

Detention of products

FDA's lack of authority to detain suspected defective products from reaching the market also seriously hampers FDA's efforts to protect the consumer.

FDA has authority under existing law to seek court injunctions prohibiting some act by a firm or individual; however, FDA has no authority to temporarily detain products suspected or known to be defective.

FDA has the authority to undertake seizure actions to prevent suspected products from reaching the market. The seizure process is a civil court action involving review by several authorities. A number of days are usually required before a product legally can be seized and taken off the shelf. As a result, FDA has been unable to prevent substantial quantities of products suspected or known to be defective from reaching the public. (See p. 18.)

GAO's review of 91 seizures--for which the percent of the total amount of a product actually seized could be determined--showed that, on an average, 69 percent of the total amount identified for seizure actually was removed from the market. The remaining 31 percent apparently was sold.

A firm stored fifty-one 100-pound bags of flour under insanitary conditions. An FDA inspection showed that rodents had gnawed into the bags, that rodent urine and excreta were on the bags, and that the flour had been contaminated.

The seizure action took 47 days. Because FDA could not detain shipment of the flour during this period, 59 percent of it reached the market. Only 21 bags, or 41 percent, were seized. (See p. 21.)

FDA should have authority to temporarily detain products believed to be defective. (See p. 24.)

Removal actions and voluntary recall

Methods available to FDA for removing from the market products suspected or known to be defective--called seizures and recalls--often are not effective. As shown, seizure actions, besides being slow, are limited to a specific quantity and location of the product. After it has been distributed nationally, the product is difficult to find and remove from the market. (See p. 26.)

A food firm found that some of its canned products contained botulism, a deadly poison. Had FDA been required to seize the product at each location, over 25,000 separate seizure actions would have been needed. The firm agreed to recall the product, and there was responsive cooperation from other concerned public and private interests in removing the product from the market. However, because of financial problems, the firm believed it could not honor the agreement. FDA found it necessary to seize the product at 100 different places. (See p. 26.)

"Voluntary recall" is an action taken by a firm, at the request of FDA or at its own initiative, to remove from the market a product suspected or known to be defective. Voluntary recalls,

however, have a disadvantage in that there is no law requiring such removal actions. Because FDA cannot enforce recalls, they are a matter of negotiation between industry and FDA and can be delayed or ineffectively carried out by the companies involved.

GAO's review of 106 recalls requested by three FDA district offices during fiscal year 1971 showed that an average of 15 days passed before the firm acted on FDA's request.

Of the recalls, 23 percent required more than 25 days to initiate. In these cases GAO found that an average of 38 percent of the product was sold during the delay. (See p. 28.)

A firm produced a prescription drug that did not meet Federal standards for dissolution. After FDA notified the company of the defective product, the firm took 55 days to initiate the recall. During this period, about 75,000 of the defective tablets were sold. (See p. 29.)

FDA should have authority to order recalls when products are found to be defective. (See p. 30.)

Comments by industry and manufacturing associations

GAO discussed FDA's need for additional authority with officials of 20 firms and five manufacturing associations. Many responses showed recognition of the need for quicker, more complete removal of defective products from the market. Reservations most often expressed were whether (1) trade secrets and formulas would be protected and (2) FDA would use its authority to detain any product suspected of violating the law or order a recall of the product, regardless of the health hazard involved.

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Such industry and association questions should be considered in any expansion of FDA's authority.

This authority should extend to all products coming under FDA's responsibility. (See pp. 17, 24, and 30.)

RECOMMENDATIONS

The Secretary of Health, Education, and Welfare should propose legislative changes to the Federal Food, Drug, and Cosmetic Act and the Federal Hazardous Substances Act to provide FDA with authority to

- examine records and data related to the production and distribution of products,
- detain products suspected or known to be defective, and
- require firms to recall these products.

AGENCY ACTIONS AND UNRESOLVED ISSUES

HEW said it was giving serious consideration to the inclusion of GAO's legislative proposals in HEW's legislative program for the Ninety-third Congress. (See p. 33.)

MATTERS FOR CONSIDERATION BY THE CONGRESS

GAO recommends that the Congress consider amending the Federal Food, Drug, and Cosmetic Act and the Federal Hazardous Substances Act to strengthen FDA's authority along the lines outlined above.

CHAPTER 1INTRODUCTION

The use of poisonous preservatives and dyes in foods and the cure-all claims for worthless and dangerous patent medicines led to the enactment of the Federal Food and Drugs Act of 1906 (21 U.S.C. 1-5, 7-15). The 1906 Act was the first step taken to prevent the sale of misbranded and adulterated foods and drugs in interstate commerce. The Food and Drug Administration's authority has been expanded several times since 1906 to include many other consumer products. The Food and Drug Administration (FDA), headed by a Commissioner, is an agency within the Department of Health, Education, and Welfare (HEW). FDA activities are carried out principally through its headquarters and 19 district offices.

The Congress enacted the Federal Food, Drug, and Cosmetic Act, as amended (21 U.S.C. 301), and the Federal Hazardous Substances Act, as amended (15 U.S.C. 1261), to protect the consumer from adulterated, misbranded, ineffective, or potentially harmful products. Although industry has over all responsibility for insuring that its products are safe and effective, the Congress gave FDA the responsibility for protecting the consumer through enforcement of the statutes.

The Federal Food, Drug, and Cosmetic Act (FD&C Act), defines FDA's regulatory activities for foods, drugs, medical devices, and cosmetics. The act prohibits the introduction of, or delivery of, adulterated, misbranded, or illegally marketed products for introduction into interstate commerce. Adulterated refers to defects in the ingredients or the conditions under which products are processed or packed. Misbranded refers to false or misleading labeling or packaging. Illegally marketed refers to new drugs which have not been approved by FDA for safety and efficacy, as required by the FD&C Act. (In this report adulterated, misbranded, or illegally marketed products are identified as violative products.)

FDA's ability to protect the consumer depends largely on its authority to identify and quickly remove from the market products suspected or known to be violative. FDA

identifies such products by inspecting the firm's facilities and by testing the finished products.

Section 704 of the FD&C Act provides FDA inspectors authority to visually inspect the manufacturing practices, methods, facilities, and conditions under which products are manufactured, processed, or packed. For prescription drugs (but not for drugs which may be purchased without prescription), FDA's authority also extends to a review of production control, quality control, formula, and shipping records, as well as complaint files. These records are used by FDA in the course of its inspections. They are used also to identify and locate products suspected or known to be violative.

Production control records show the step-by-step manufacturing process for each product and can be of great value to inspectors trying to isolate a product containing raw materials suspected or known to be violative or produced under a defective manufacturing process. Quality control records are used to determine whether a firm is maintaining appropriate safeguards for such things as product purity, potency, and stability in its manufacturing process.

The formula is the recipe for the product. It is a complete list of ingredients and the weight or measurements for each ingredient, together with the specifications for combining the ingredients and the conditions and procedures for manufacturing the product. Access to the formula provides FDA inspectors with information to identify the specific ingredients and processes which are supposed to be used and to identify any ingredients or processes which might cause a violative product.

Shipping records enable FDA to determine the specific shipping destinations and indicate whether FDA has regulatory jurisdiction, which extends only to products received or shipped in interstate commerce. Complaint files can give FDA leads on potentially harmful products.

FDA has two methods--seizures and recalls--available for removing products suspected or known to be violative from the market. Seizures are authorized under section 304 of the FD&C Act but require a civil court action and are

consequently limited to the specific quantity and location of products identified in the seizure complaint.

Recalls of products must be made by the voluntary action of the manufacturer. FDA presently has no recall authority. Because recall actions are voluntary on the part of the manufacturer, FDA cannot control delays in initiating the action.

Both seizures and recalls require time to be initiated. Although section 302 of the FD&C Act provides FDA with authority to seek injunctions to restrain violations of the act, it does not provide FDA with authority to detain products suspected or known to be violative.

FDA also has responsibility for consumer products other than foods, drugs, medical devices, and cosmetics. The Federal Hazardous Substances Act prohibits interstate shipment of household substances and children's articles which do not contain adequate warning labels or which are hazardous regardless of cautionary labeling. The act defines as hazardous such household substances as chemicals or mixtures of chemicals which are toxic, corrosive, irritant, flammable, or which may cause substantial personal injury or illness. FDA's inspection and enforcement authority under this act is similar to that under the FD&C Act. Also techniques used to inspect and remove misbranded products or hazardous substances are similar to those used for foods, drugs, cosmetics, and medical devices. In this report, misbranded products or products which are considered hazardous, regardless of cautionary labeling under the Federal Hazardous Substances Act, are also identified as violative products.

Our review was directed at FDA's ability to remove products suspected or known to be violative from the market. We reviewed applicable legislative history and FDA's regulations, policies, and practices for removing such products. We also examined FDA's records and files pertaining to fiscal year 1970 refusals of access to firms' records and pertaining to fiscal year 1971 seizures and recalls.

We performed our review at FDA district offices in Detroit, Michigan; Philadelphia, Pennsylvania; and San Francisco, California; and at FDA headquarters in Rockville,

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Maryland. We interviewed officials from FDA, the Environmental Protection Agency (EPA), the U.S. Department of Agriculture (USDA), the Federal Trade Commission, the U.S. Attorney's Office, the U.S. Marshal's Service, and certain State agencies in California, Pennsylvania, and Michigan. We also discussed our review with 20 firms and five trade associations from the food, drug, and cosmetic industries.

CHAPTER 2LIMITED AUTHORITY FOR ACCESS TO RECORDS

Accomplishment of FDA's consumer protection responsibilities is largely dependent upon FDA's ability to identify and remove products suspected or known to be violative from the market. To carry out this responsibility, FDA must obtain information from the manufacturers' records that will assist in identifying violative products and shipping destinations. Except for prescription drugs, present law does not require firms to provide FDA access to this information and, although most firms cooperate with FDA in this regard, many firms have been unwilling to voluntarily allow FDA such access. Consequently FDA may be unable to obtain needed information and may be prevented from identifying and removing violative products from the market.

During fiscal years 1969 through 1971, 3,300 firms refused to cooperate with requests by FDA inspectors on over 10,000 occasions, including about 7,900 denials of recorded information. The types of records refused and the number of refusals during this period are shown in the following table.

<u>Records refused</u>	<u>Number</u>	<u>Percent</u>
Formula data	4,575	46
Production and quality control records	1,508	15
Shipping records	1,257	13
Complaint files	<u>589</u>	<u>6</u>
Total	<u>7,929</u>	<u>80</u>
<u>Other refusals</u> (primarily taking of pictures)	<u>2,080</u>	<u>20</u>
Total	<u>10,009</u>	<u>100</u>

These statistics represent only part of the problem. In addition to outright refusals, FDA officials have informed us that some firms provide only partial data or delay providing the requested data to FDA inspectors. The officials informed us also that as a consequence of repeated refusals of data, some FDA inspectors have stopped asking for access to needed information.

FDA EFFORTS TO PROTECT CONSUMER HAMPERED

In a 1968 report to the Office of the Secretary of the Department of Health, Education, and Welfare, FDA officials stated that:

"Often an FDA inspector, during the course of an inspection, observes something that indicates that a violation of law is occurring or that violative goods are being held in the plant. But unless he is voluntarily shown control records or other relevant data, he can neither confirm nor disprove his suspicion. And he is usually not shown these records. Before samples can be taken and analyzed and a seizure complaint prepared if needed, the suspected goods are often already on their way to retailers or even in the hands of consumers."

In fiscal year 1970 FDA inspectors in the three district offices which we visited reported that they were refused access to records during 398 inspections of 319 firms. We reviewed case files of 290 inspections made at 235 firms.¹ We found that refusals of access to firms' records prevented FDA from (1) removing products suspected or known to be violative from the market and (2) evaluating firms' production and quality control procedures affecting the quality of their products. Such information is needed by FDA to determine whether to initiate court action for seizure or whether to ask for voluntary recall.

Refusals delay or
prevent actions

For 45, or 16 percent, of the 290 cases reviewed, FDA had indications from other sources that the products involved may have been violative.

--In 34 of the cases, FDA did not or could not pursue the matter further because of insufficient information,

¹The cases selected for review represent the first inspection at each of the 235 firms during which FDA encountered refusals and subsequent followup inspections at certain of the firms.

unavailability of the product, or the minor nature of the violations.

--In nine of the remaining 11 cases, FDA's efforts to take removal actions were delayed or prevented because the firms maintained their position to refuse FDA inspectors access to information.

Two examples follow.

Example A--A manufacturer of a liquid drain opener refused to provide FDA with shipping records which were needed to show whether the product was shipped in interstate commerce and, therefore, whether the product was under FDA's jurisdiction.

FDA contended that the product violated the Federal Hazardous Substances Act because it did not have an adequate warning on the label. FDA had received several complaints that the product has caused skin burns. One consumer complained that she had suffered serious facial scarring because the product spontaneously exploded when she poured it into her kitchen drain. Had she not been wearing glasses, she might have been permanently blinded. Despite these injuries, the firm refused to cooperate with FDA.

The FDA district office attempted to locate a sample which had been shipped interstate by obtaining consignee names from a trucking company and by requesting another FDA district office to try to locate the product. This attempt was unsuccessful, and FDA was unable to take action to remove the product from the market.

Example B--A firm which processed walnuts refused to provide FDA with shipping data, even though FDA had found that some of the walnuts at the firm were contaminated with filth and *Escherichia coli*--a bacteria found in the intestinal tract of warmblooded animals and an indicator of fecal contamination. After notifying FDA officials in another State, a sample of the firm's walnuts was collected and was found to be contaminated. As a result, FDA removed 36 cases of walnuts at this location. An FDA official advised us that the firm's refusal to provide shipping data delayed the eventual removal of the contaminated product from the market in the one location and prevented FDA from removing the

product from other locations and thereby hampered FDA's ability to protect the consumer.

Refusals delay or prevent FDA evaluation of firms' production and quality controls affecting the quality of products

Refusals hampered FDA's inspection efforts in 68, or 23 percent, of the 290 inspection cases we reviewed by delaying or preventing FDA from obtaining information needed to evaluate the firms' production and quality control procedures affecting the quality of their products. In 36 cases FDA performed additional work attempting to obtain the refused information. Following are two examples of refusals which significantly hampered FDA's inspection efforts.

Example C--A bakery made coconut pies with eggs obtained from a supplier whose eggs had been found to contain salmonella (harmful bacteria which can cause illness and even death). In addition to taking action against the egg supplier, FDA requested the bakery's quality control records which were supposed to show the results of testing pies for salmonella. These records were needed because the pies (the only product in which the suspected contaminated eggs were used) had already been distributed.

The bakery refused FDA access to these records, and FDA was unable to determine whether the pies contained salmonella. In addition, FDA was not able to complete an important part of its inspection--evaluation of the firm's procedures for testing products for salmonella. In fact, FDA could not even determine whether tests for salmonella had been performed.

Example D--A firm which manufactures chemicals used in medical diagnoses refused to provide FDA access to its records which included information on products being recalled by the firm. FDA inspectors had estimated that 20 products were being recalled. After allowing FDA to review the files for four of the recalled products, the firm refused further access to its files. Although three FDA inspectors spent 197 hours trying to identify all the products which the firm was recalling, no information on the estimated 16 remaining products could be obtained. The four products identified were being recalled for the following reasons.

<u>Product</u>	<u>Reason</u>
Uric acid set	Decomposition resulting in inaccurate readings
Serum iron set	Visible mold growth
Salicylic acid	Defective
Cholesterol set	Labeling error

FDA officials stated that, because the defects in the products could lead to inaccurate medical diagnoses, all district offices were requested to check on the effectiveness of these recalls.

PRECEDENCE EXISTS FOR ACCESS-TO-RECORDS AUTHORITY

Several Federal agencies have authority to review records relating to the production and distribution of products under their regulatory responsibility. For example, the Federal Meat Inspection Act, as amended (21 U.S.C. 601), requires meat processors to maintain records and give USDA inspectors access to all records bearing on the quality and distribution of meats. The Wholesome Poultry Products Act (21 U.S.C. 451) also requires firms to open their facilities and records to examination by USDA inspectors.

Access to records is also authorized by law for the Department of Transportation when inspecting automobiles and automobile tires for safety. In addition, the proposed Federal Environmental Pesticides Control Act of 1972 (H.R. 10729) proposes expanded access-to-records authority for use by EPA in controlling pesticides. This bill passed the House of Representatives in November 1971, was approved by the Senate Committee on Agriculture and Forestry in April 1972, and is currently awaiting final Senate action. Under the provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C. 135-135k), EPA already has authority for access to all records showing the delivery, movement, or holding of pesticide products, including quantities of shipments, dates of shipment and receipt of goods, and names of consignors or consignees of shipments. The proposed legislation would provide EPA with additional authority for plant inspection.

In addition, some States have laws which require firms to provide State officials with access to records. California, for example, has a law which requires firms to provide State inspectors with complete access to all records bearing on the quality of a product. Pennsylvania law authorizes its food and drug office access to firms' quality control records and shipping data.

The need for FDA to have access to records was recognized in 1962 when the FD&C Act was amended to require firms which manufacture, process, package, or hold prescription drugs to provide access to records, files, papers, processes, controls, and facilities bearing on whether such drugs are adulterated or misbranded.

The Secretary of HEW, in a 1963 letter to the Speaker of the House of Representatives, submitted a legislative proposal to give FDA authority for access to records concerning all products covered by the FD&C Act. The President, in a 1964 message to the Congress, reiterated this request, stating that FDA lacked the needed authority to fully inspect the factories in which products were produced.

FDA officials have stated that access-to-records authority is essential if FDA is to provide consumers with the protection intended by the Congress. FDA officials told us that the lack of cooperation by some firms had increased the cost of inspections or had made them ineffective.

On January 19, 1972, the proposed Pure Food Act of 1972 (H.R. 12478) was introduced in the House of Representatives. This bill would amend the FD&C Act to give FDA access to all records for food commodities.

INDUSTRY AND MANUFACTURING ASSOCIATION COMMENTS

During our review we discussed FDA's authority with officials of 20 food, drug, and cosmetic firms. We also discussed our review and tentative conclusions with representatives of five manufacturing associations. Comments from these officials varied--some agreed that FDA needed additional access-to-records authority; while others disapproved of FDA's access to any records. A major concern of some officials was the protection of trade secrets and formulas from their competitors. Other industry officials, however, told us that this was not a valid concern. The majority of the firms whose officials we interviewed had provided FDA information, including some trade secrets, without any problems.

Another concern expressed by some officials was that additional authority would allow FDA to require firms to provide information without justification or cause. Other officials, however, stated that increasing FDA's access to records would not affect the amount of information they were providing FDA.

An official of a drug manufacturer told us that some firms were not as cooperative as his firm in providing FDA

access to records. He explained that, because his firm provided FDA access to records, it ran a greater risk of having products seized. He believed that all firms should be required to provide FDA the same types of information.

An official from another firm stated that his firm cooperated with FDA because the firm believed it was responsible for complying with more than the minimum legal requirements. He said that some firms used the specific language of the law to prevent FDA from making a complete inspection.

FDA, acting on a suggestion by the National Canners Association, published a proposal in the November 12, 1971, Federal Register, which states that FDA personnel should be permitted to inspect canning firms' processing records. These records are needed, the proposal states, to insure that adequate processing and coding of low-acid canned food were performed. As of May 8, 1972, comments on the proposal were being considered before inclusion in the Code of Federal Regulations.

CONCLUSION

The lack of authority to review records relating to the production and distribution of all products under FDA's responsibility severely hampers FDA's ability to identify and remove from the market products suspected or known to be violative; thus, consumers are exposed to an increased risk of using such products. We believe that there is a need for legislation giving FDA access-to-records authority--similar to the authority FDA now has for prescription drugs--for all products under its consumer protection responsibility.

HEW had prepared legislation for such access-to-records authority and submitted it to the Congress on only one occasion--in 1963--9 years ago. Because industry refusals may prevent FDA from identifying and removing products suspected or known to be violative from the market, we believe the Secretary of HEW should again seek legislative changes to the FD&C Act and the Federal Hazardous Substances Act to provide FDA with expanded access-to-records authority.

RECOMMENDATION TO THE SECRETARY
OF HEALTH, EDUCATION, AND WELFARE

We recommend that the Secretary of HEW propose legislative changes to the FD&C Act and the Federal Hazardous Substances Act to provide FDA with authority to examine records and data related to the production and distribution of products under FDA's responsibility.

HEW advised us that it was giving serious consideration to the inclusion of our proposal in its legislative program for the Ninety-third Congress. (See app. I.)

RECOMMENDATION TO THE CONGRESS

To improve FDA's ability to protect the consumer from all products suspected or known to be violative over which FDA has responsibility, we recommend that the Congress consider amending the FD&C Act and the Federal Hazardous Substances Act to provide FDA with needed access-to-records authority.

CHAPTER 3NEED FOR AUTHORITY TO DETAIN PRODUCTS

FDA's lack of detention authority--coupled with the slowness of seizure actions--seriously hampers FDA's efforts to protect the consumer from products suspected or known to be violative.

FDA has authority under existing law to seek court injunctions prohibiting an act by a firm or individual; however, FDA has no authority to temporarily detain products suspected or known to be violative. Further, because the seizure process is a civil court action involving several levels of review, the seizure process always takes a number of days before a product legally can be seized and taken off the shelf. As a result of these limitations, FDA has been unable to prevent substantial quantities of products suspected or known to be violative from reaching the public.

SLOWNESS OF SEIZURE ACTIONS

Seizure actions are initiated by FDA after analysis of a product or examination of the conditions under which the product was manufactured, packed, or repacked indicates that the product violates the FD&C Act or the Federal Hazardous Substances Act. Usually an FDA district office collects and analyzes a sample of the product to confirm that the product is violative and then recommends seizure action to FDA headquarters. If headquarters approves the recommendation, it requests a U.S. Attorney to initiate seizure action in the appropriate Federal District Court.

After a seizure warrant is issued, a U.S. Marshal presents it to the firm and has the product removed from the market. This procedure takes time, and considerable delay often results between the date the FDA inspector identifies the problem and the date the U.S. Marshal executes the seizure.

Our review of 88 seizures--for which we could determine the time required to seize the product--showed that the average time required to remove a product from the market

was 54 days. The following table shows the average time required at each major action level.

<u>Action level</u>	<u>Average number of days</u>
FDA district office	22
FDA headquarters	14
Department of Justice (note a)	<u>18</u>
Total	<u>54</u>

^aIncludes the Federal District Court's time and the U.S. Marshal's time to seize the product.

An FDA official advised us that delays at the district level were generally due to the lack of resources and equipment to complete the analyses of samples. He told us that, when large numbers of samples were collected, a backlog could develop. Our review of five seizure actions confirmed that delays resulted because of the limited manpower and laboratory facilities needed to make the analyses.

Delays are also encountered at FDA headquarters in using the mail and in the handling of correspondence by the mail-room and clerical staffs. For the five seizure actions reviewed, we found that there was an average delay of 10 days between the time the correspondence was mailed from the district office and the time it was received by the proper officials at FDA headquarters.

FDA has recognized the need for additional resources to improve the processing of seizure actions. FDA's proposed budget for fiscal year 1973 includes a request for major increases in dollars and manpower resources, which should assist in expediting FDA laboratory analyses and processing of seizures. Some minimum amount of laboratory time will always be needed to perform an analysis of a product. For example, the laboratory time required to test foods for salmonella is 7 to 10 days, whereas testing the sterility of drugs requires a minimum of 14 days.

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Limited staffs, higher priority work, and problems in preparing legal paperwork also cause delays at the U.S. Attorney's Office and the U.S. Marshal's Service after FDA has requested the seizure. Officials of both a U.S. Attorney's Office and a U.S. Marshal's Service told us that anticipated additional increases in staffs should reduce the time required to take seizure actions.

Impact of delays

The impact of delays on the effectiveness of seizures can be seen in the following analysis of 21 seizures from one district.

<u>Number of seizures</u>	<u>Days delayed</u>	<u>Percent of product seized</u>
1	11 to 20	93
4	21 to 30	74
3	31 to 40	69
13	over 40	56

As the delay increases, the amount of the product reaching the consumer increases.

Our review of 91 seizure actions initiated by three FDA districts during fiscal year 1971, for which we could determine the percent of product seized, showed that on an average only 69 percent of the amounts of products identified for seizure were actually seized. The remaining quantities were apparently sold to the public.

The following table shows our analysis of the percentage of products removed from the market for the 91 seizure actions reviewed.

<u>Number of seizures</u>	<u>Percent of seizures</u>	<u>Percent of product removed</u>
16	18	0 to 10
12	13	11 to 50
7	8	51 to 70
12	13	71 to 90
44 ^a	48	91 to 100
<u>91</u>	<u>100</u>	

^aIncludes several seizure actions where State detentions or voluntary holds by the firms were used to detain the products until removed from the market.

As noted in the above table, 16 seizures, or 18 percent, removed 10 percent or less of the products identified for seizure.

The slowness of seizures and the lack of detention authority can pose a serious health problem to the public. Some examples follow.

Example E--A firm stored fifty-one 100-pound bags of flour under insanitary conditions, and the flour became contaminated with filth. An FDA inspection at the firm showed that rodents had gnawed into the bags and that rodent urine and excreta pellets were on the bags. The firm agreed to voluntarily hold the 51 bags, pending FDA's analysis and completion of the seizure action. The seizure action took 47 days. Because FDA could not detain the flour during this period, only 21 bags, or 41 percent, were still available for seizure at the time action was taken. The other bags were apparently sold, contrary to the firm's agreement.

Example F--FDA attempted to seize 3,960 capsules of a drug which contained thyroid, because the firm marketed this drug without obtaining FDA's approval of a new drug application. The approval is required by FDA to insure that all new drugs have been properly tested for safety and effectiveness. Also an FDA study showed that thyroid products were ineffective in the treatment of obesity--their intended use. The study of products containing thyroid and thyroid combinations was conducted because of numerous injuries and deaths attributable to their use. The seizure action took 30 days, and, because FDA did not have authority to detain products, all the capsules were sold before they could be seized.

Example G--A food firm manufactured and packaged noodles under insanitary conditions. FDA's inspections revealed that the noodles were being processed in an insect- and rodent-infested plant. Insect parts and rodent hairs contaminated the noodles. FDA attempted to seize 5,436 packages of noodles, but the seizure action took 33 days and only 684 packages were actually seized. According to FDA officials the remaining 4,752 packages were apparently sold to the public.

EFFECTIVENESS OF AND PRECEDENCE
FOR DETENTION AUTHORITY

We found that, in some seizure actions, FDA requested a State or local official to use his embargo authority to detain products pending removal. In those cases the percentage of the product removed from the market was significantly increased. We noted that 34 States had embargo authority which authorized their inspectors to detain questionable products until they were proven safe or removed from the market.

We reviewed seven seizure actions where FDA requested the States or local officials to detain the product. In five of the actions, 100 percent of the products identified for seizure were removed; in the other two actions, 97 percent and 45 percent of the products were removed. We believe that the use of embargo authority resulted in a significant improvement over cases where embargo authority was not used and that having such authority could improve FDA's consumer protection activities.

FDA has stated that using State and local detention authority in lieu of Federal authority is not satisfactory because:

--It results in duplication of effort. Although the FDA inspector has identified a problem, the State inspectors must also observe the problem.

--FDA cannot always contact State officials when necessary.

--Some States have no, or only limited, detention authority.

FDA has stated also that the lack of authority to detain products has been detrimental to effective enforcement of consumer protection laws and has resulted in the sale of defective products.

We note that FDA already has detention authority for meat, poultry, and eggs only under section 409 of the Wholesale Meat Act (21 U.S.C. 679), section 24 of the Poultry

Products Inspection Act (21 U.S.C. 467), and section 23 of the Egg Products Inspection Act (21 U.S.C. 1052). USDA also has detention authority under these same acts. USDA officials have advised us that detention is a valuable tool and is used extensively in the enforcement of these acts. According to the officials, the 20-day detention period authorized by law allows USDA time to analyze the product and to prepare sufficient documentation to execute a seizure action without the risk of having some of the defective product sold to the public.

In this regard we noted that pending legislative proposals, such as the proposed Pure Food Act of 1972 (H.R. 12478), if enacted, would amend the FD&C Act to give FDA detention authority for food commodities.

The need for detention authority has also been recognized for use by EPA. Under the proposed Federal Environmental Pesticides Control Act of 1972 (H.R. 10729), EPA would be authorized to stop the sale and distribution of pesticide products which are violative. EPA officials stated that this provision was important to the successful enforcement of the EPA pesticide control program.

INDUSTRY AND MANUFACTURING ASSOCIATION COMMENTS

During our review we discussed the need for detention authority with officials from 20 firms. We also discussed our review and tentative conclusions with officials from five manufacturing associations. Although some of the officials agreed that detention authority was necessary, others were concerned with how FDA would implement this authority. The officials raised the following questions concerning the use of detention authority by FDA.

1. What scientific basis would be needed to justify the use of detention authority?
2. Who would be able to invoke detention authority?
3. When would detention be used--for serious hazards only, or for all violations?

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4. What would be the maximum time products could be detained, especially perishable products which would have to be destroyed if detained too long?
5. What would be the penalty for violating the detention?

We recognize that these questions have merit and believe they should be considered in establishing detention authority.

CONCLUSION

FDA's lack of detention authority--coupled with the slowness of seizure actions--seriously hampers consumer protection. As a result of these limitations, FDA is unable to prevent substantial quantities of products suspected or known to be violative from being sold to and consumed by the public.

Both FDA and the Department of Justice have recognized the need for improving the speed of seizure actions, and both have requested additional manpower and resources for reducing the time required to take seizure actions.

Even with additional resources, detention authority is needed because the seizure process always takes a number of days to remove products from the market and because, during this time, products suspected or known to be violative should not be distributed to the public. Therefore we believe that FDA should have authority to temporarily detain products.

The House of Representatives is now considering legislative proposals, such as the proposed Pure Food Act of 1972, which, if enacted, would provide FDA with detention authority for food commodities. We believe that this authority should extend to all products under FDA's responsibility.

RECOMMENDATION TO THE SECRETARY OF HEALTH, EDUCATION, AND WELFARE

We recommend that the Secretary of HEW propose legislative changes to the FD&C Act and the Federal Hazardous Substances Act to provide FDA with authority to detain

products under FDA's responsibility that are suspected or known to be violative.

HEW advised us that it was giving serious consideration to the inclusion of our proposal in its legislative program for the Ninety-third Congress. (See app. I.)

RECOMMENDATION TO THE CONGRESS

To improve FDA's ability to protect the consumer, we recommend that the Congress consider amending the FD&C Act and the Federal Hazardous Substances Act to provide FDA with the authority to detain products.

CHAPTER 4LIMITED AUTHORITY TO REMOVE PRODUCTS

The methods available to FDA for removing products suspected or known to be violative from the market--seizures and recalls--are often not effective. Seizure actions, besides being slow (see ch. 3), are limited in scope, and recalls--being voluntary--are not enforceable by FDA. As a result, the consumer is frequently exposed to products which should have been removed from the market.

SEIZURES LIMITED IN SCOPE

Seizure actions are limited to the specific quantity and location of a product identified in the complaint filed by the U.S. Attorney. FDA must identify the quantity of a product at each location and recommend a separate seizure action for each location. Removing a product from the market is thus very difficult after it has been distributed nationally, as illustrated by the following example.

Recently, a food firm found that some of its canned products contained botulism (a deadly poison). Had FDA been required to seize the product at each location, over 25,000 separate seizure actions would have been needed. The firm initially agreed to voluntarily recall the product, and seizure actions were generally not needed. However, the firm was unable to honor its agreement because of financial problems and FDA--despite the intense cooperation from other concerned public and private interests in removing the product from the market--still found it necessary to seize the product at 100 different locations.

Needless to say, such a large number of seizure actions was inefficient but was necessary in the absence of better legal authority to remove products from the market. Because of the difficulties involved in seizure actions, FDA has encouraged voluntary recalls as a means of removing products suspected or known to be violative from the market.

VOLUNTARY RECALLS NOT ENFORCEABLE

A voluntary recall is an action taken by a firm, at the request of FDA or on its own initiative, to remove a product suspected or known to be violative from the market. When recalling a product, the firm involved assumes full responsibility for removing the product. As a result, manufacturers often decide whether or not to initiate a recall and often initiate a recall without notifying FDA. In contrast to seizures, neither FDA nor U.S. Attorneys and Marshals are directly involved. To the extent possible, however, FDA monitors the firm's effectiveness in removing the product from the market. In fiscal year 1971 FDA monitored over 1,900 recalls.

We were advised by FDA that, to make certain that violative products are removed from the market, manufacturers should be required to notify FDA when they discover such products so that FDA would be in a position to determine the nature and extent of any hazard and to monitor all recalls.

When quickly and effectively implemented, voluntary recalls usually remove greater quantities of the violative products in less time than seizure actions. The firm involved can readily identify the location of the product and advise its customers and consignees that the product should be returned at the firm's expense. Most important, however, is that the recall can be nationwide in scope rather than limited to a specific quantity at a specific location, as is the case with a seizure.

Voluntary recalls do have a significant disadvantage in that there is no statutory authority for such removal actions. Because FDA cannot enforce recalls, they have become a matter of negotiation between industry and FDA and thus can be delayed or ineffectively performed by the firm involved. If FDA is not satisfied with the progress of a recall, seizure action is the only alternative provided under existing law to remove a product from the market. FDA officials told us that seizures were often necessary because firms did not voluntarily remove products suspected or known to be violative from the market.

Our review of 142 recalls monitored by three FDA districts during fiscal year 1971 showed that 106 of them were initiated at FDA's request. For the FDA-initiated recalls, an average of 15 days passed before the firm acted on FDA's request to remove a product from the market. Further, 23 percent of the recalls required more than 25 days to initiate action and in these cases we found that an average of 38 percent of the product was sold during the delay.

For 111 of the 142 recalls, we were able to determine (1) the number of days the recall action was delayed by the firm after it learned of the problem and (2) the percent of the product removed. The following table illustrates the relationship between the length of the delay and the percentage of the product removed from the market.

<u>Number of recalls</u>	<u>Percent of recalls</u>	<u>Days delayed</u>	<u>Percent of product removed</u>
70	63	0 to 10	44
15	13	11 to 20	32
12	11	21 to 30	32
<u>14</u>	<u>13</u>	over 30	21
<u>111</u>	<u>100</u>		

As shown, the success of a recall depends on the speed with which it is initiated.

The following two examples show that, once identified, significant amounts of a product suspected or known to be violative are still reaching the public because of delays by firms in taking recall actions.

Example H--FDA notified a drug firm on April 27, 1971, that the production of one of its drugs, digitalis (a heart stimulant), was superpotent and was considered a potential health hazard. Although FDA had tested the drug, the firm requested time to retest and perform its own analysis. After 111 days and an appeal to the firm by the Deputy Associate Commissioner for FDA, the firm agreed on August 16, 1971, to recall the superpotent drug. However, this delay made the recall less effective, because about 84,000 pills,

or about 42 percent of the amount distributed, were not recovered. FDA officials advised us that seizure of the drug was not practical because of its national distribution.

Example I--A firm produced a prescription drug that did not meet Federal standards for dissolution. FDA tests of the drug showed that the dissolution range was only between 5 and 39 percent compared with the 60-percent minimum dissolution rate required by the Federal standard. FDA considered this defect to be a moderate-to-serious health hazard. FDA notified the firm of the problem on March 19, 1971. The firm initiated the recall 55 days later. According to the firm's estimated consumption rates, this delay permitted about 75,000 of the tablets to be sold to the public.

INDUSTRY AND MANUFACTURING ASSOCIATION COMMENTS

During the course of our review we discussed the need for recall authority with officials of 20 firms. We also discussed our review and tentative conclusions with officials from five manufacturing associations. Most officials agreed that the quick and complete removal of hazardous products is important to protect the consumer. However, several officials were concerned about how FDA would implement recall authority. Generally the same questions discussed on page 23 on detention authority also applied to recalls. They stated that recalls should be limited to products that present a significant health hazard. We believe that these concerns have merit and should be considered before taking action to establish recall authority.

We noted that such legislative proposals as the proposed Pure Food Act of 1972 include provisions which would authorize recall. The proposal states that, when the Secretary of HEW determines that a food product poses a significant potential health hazard, he may order the recall of the food product. Similarly the proposed Federal Environmental Pesticides Control Act of 1972 includes provisions for recall by EPA when the registration of a pesticide is suspended.

CONCLUSION

Effective corrective actions to remove violative products from the market may--in addition to protecting the consumer from harmful or potentially harmful products--serve to encourage a higher degree of compliance by industry with those requirements of law designed to insure consumer protection.

However, we believe that neither seizures nor voluntary recalls provide FDA with a means of effectively removing products from the market. Seizure actions, beside being slow, are limited in scope, and recalls--being voluntary--are not enforceable by FDA.

We believe that a new regulatory measure, recall authority, is needed. This measure would combine the scope of voluntary recalls with the enforcement authority of seizures while adding an element of speed. It would also eliminate the need for initiating time-consuming and burdensome court actions for each location involving violative products. At the same time, it would provide the statutory authority needed by FDA to eliminate the delays that can plague recalls.

The House of Representatives is now considering legislative proposals, such as the proposed Pure Food Act of 1972 which, if enacted, would provide FDA with recall authority for food commodities. We believe, however, that this authority should extend to all products under FDA's responsibility.

RECOMMENDATION TO THE SECRETARY
OF HEALTH, EDUCATION, AND WELFARE

We recommend that the Secretary of HEW propose legislative changes to the FD&C Act and the Federal Hazardous Substances Act to provide FDA with the authority to require firms to recall violative products for all products under FDA's responsibility.

HEW advised us that it was giving serious consideration to the inclusion of our proposal in its legislative program for the Ninety-third Congress. (See app. I.)

RECOMMENDATION TO THE CONGRESS

To improve FDA's ability to remove violative products from the market, we recommend that the Congress consider amending the FD&C Act and the Federal Hazardous Substances Act to provide FDA with the authority to recall violative products.



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
OFFICE OF THE SECRETARY
WASHINGTON, D.C. 20201

JUL 31 1972

Mr. Morton A. Myers
Assistant Director
General Accounting Office
Washington, D. C. 20548

Dear Mr. Myers:

This is in response to your letter of June 6, 1972, requesting the Department's comments on a draft of a proposed report of the General Accounting Office entitled "Lack of Authority Limits Consumer Protection: Problems in Identifying and Removing from the Market Products Which Violate the Law."

The GAO report analyzes the authority of the Food and Drug Administration 1) to examine records needed to identify and remove from the market products known or suspected of violating the statutes administered by the Secretary through FDA, 2) to detain such products; and 3) to remove such products from the market. On the basis of this analysis, the report concludes that legislation should be enacted to provide the Department with certain additional authority.

The GAO conclusions with respect to the limitations of the analyzed statutes are legally correct, and the particular cases and other data cited by the report are confirmed by FDA's records.

We are currently giving the most serious consideration to the inclusion of GAO's legislative proposals in the Department's legislative program for the next Congress. It should be recognized, however, that any such proposals, if adopted by the Department, must be submitted for clearance to the Office of Management and Budget and must be coordinated by that office with other interested agencies within the Executive Branch. It is therefore not possible for us to anticipate the outcome of this process at this time.

Sincerely yours,


James B. Cardwell
Assistant Secretary, Comptroller