- n. The analytical controls used during the various stages of the manufacturing; processing, packaging, and labeling of the drug, including a detailed description of the collection of samples and the analytical procedures to which they are subjected. The analytical procedures should be capable of determining the active components within a reasonable degree of accuracy and of assuring the identity of such components. If the article is one that is represented to be sterile, the same information with regard to the manufacturing, processing, packaging, and the collection of samples of the drug should be given for sterility controls. Include the standards used for acceptance of each lor of the finished drug.

 o. An explanation of the exact significance of the batch control numbers used in the manufacturing, processing, packaging, and labeling of the drug, including the control numbers that appear on the label of the finished article. State whether these numbers enable determination of the complete manufacturing history of the product. Describe any methods used to permit determination of the distribution of any batch if its recall is required.

 P. A complete description of, and data derived from, studies of the stability of the drug, including information showing the suitability of the analytical methods used. Describe any additional stability studies underway or contemplated. Stability data should be submitted for any new-drug substance, for the finished dosage form of the drug in the container in which it is to be marketed, including any proposed multiple-dose container, and if it is to be put into solution at the time of dispensing, for the solution prepared as directed. State the expiration date(s) that will be used on the label to preserve the identity, strength, quality, and purity of the drug until it is used. (If no expiration date is proposed, the applicant must justify its absence.)

 q. Additional procedures employed which are designed to prevent contamination and otherwise assure proper control of the produ

- q. Additional procedures employed which are designed to prevent contamination and otherwise assure proper control of the product.

 (An application may be refused unless it includes adequate information showing that the methods used in, and the facilities and controls used for, the manufacturing, processing, and packaging of the drug are adequate to preserve its identity, strength, quality, and purity in conformity with good manufacturing practice and identifies each establishment, showing the location of the plant conducting these operations.)

 9. Samples of the drug and articles used as components, as follows: a. The following samples shall be submitted with the application or as soon thereafter as they become available. Each sample shall consist of four identical, separately packaged subdivisions, each containing at least three times the amount required to perform the laboratory test procedures described in the application to determine compliance with its control specifications for identity and assays:

 i. A representative sample or samples of the finished dosage form(s) proposed in the application and employed in the clinical investigations and a representative sample or samples of cach new-drug substance, as defined in \$130.1(g), from the batch(es) employed in the production of such dosage form(s).

 ii. A representative sample or samples of finished market packages of each dosage form of the drug prepared for initial marketing and, if any such sample is not from a commercial-scale production batch, such a sample from a representative sample or samples of each new-drug substance as defined in \$130.1(g), from the batch(es) employed in the production of such dosage form(s).

 ii. A representative sample or samples of each new-drug substance as defined in \$130.1(g), from the batch(es) employed in the production of such dosage form(s).

- components of the finished drug: Provided, however, That
- components of the finished drug: Provided, however, That samples of reference standards recognized in the official U.S. Pharmacopeia or The National Formulary need not be submitted unless requested.

 b. Additional samples shall be submitted on request.

 c. Each of the samples submitted shall be appropriately packaged and labeled to preserve its characteristics, to identify the material and the quantity in each subdivision of the sample, and to identify each subdivision with the name of the applicant and the new-drug application to which it relates.
- with the name of the applicant and the new-drug application to which it relates.

 d. There shall be included a full list of the samples
 submitted pursuant to Item Da; a statement of the addifional samples that will be submitted as soon as available; and, with respect to each sample submitted, full
 information with respect to its identity, the origin of any
 new-drug substance contained therein (including in the
 case of new-drug substances, a statement whether it was
 produced on a laboratory, pilot-plant, or full-production
 scale) and detailed results of all laboratory tests made to
 determine the identity, strength, quality, and purity of determine the identity, strength, quality, and purity of the batch represented by the sample, including assays. Include for any reference standard a complete description of its preparation and the results of all laboratory tests on it. If the test methods used differed from those de-scribed in the application, full details of the methods employed in obtaining the reported results shall be sub-mitted.

- semployed in obtaining the reported results shall be submitted.

 c. The requirements of Item 9a may be waived in whole or in part on request of the applicant or otherwise when any such samples are not necessary.

 f. If samples of the drug are sent under separate cover, they should be addressed to the attention of the Bureau of Medicine and identified on the outside of the shipping carton with the name of the application.

 10. Full reports of preclinical investigations that have been made to show whether or not the drug is safe for use and effective in use.

 a. An application may be refused unless it contains full reports of adequate preclinical tests by all methods reasonably applicable to a determination of the safety and effectiveness of the drug under the conditions of use suggested in the proposed labeling.

 b. Detailed reports of the preclinical investigations, including all studies made on laboratory animals, the methods used, and the results obtained, should be clearly set forth. Such information should include identification of the person who conducted each investigation, a statement of where the investigations were conducted, and where the underlying data are available for inspection. The animal studies may not be considered adequate unless they give proper attention to the conditions of use recommended in the proposed labeling for the drug such as, for example, whether the drug is for short-or long-term administration or whether it is to be used in infants, children, pregnant women, or women of child-bearing potential.

 c. Detailed reports of any pertinent microbiological and in vitros studies.

 d. Summarize and provide a list of literature refer-
- c. Detailed reports of any pertinent microbiological and in vitro studies.

 d. Summarize and provide a list of literature references (if available) to all other preclinical information known to the applicant, whether published or unpublished, that is pertinent to an evaluation of the safety or effectiveness of the drug.

 11. List of investigators. a. A complete list of all investigators supplied with the drug including the name and post office address of each investigator and, following each name, the volume and page references to the investigator's report(s) in this application and in any docu-
- and post office address of each investigator and, following each name, the volume and page references to the investigator's report(s) in this application and in any documents incorporated by reference, or the explanation of the omission of any reports.

 b. The unexplained omission of any reports of investigations made with the new drug by the applicant, or