less than 90% and not more than 110% of the labeled amount of amitriptyline hydrochloride (C₂₀H₂₃N.HCl: 313.86).

Method of preparation Prepare as directed under Tablets, with Amitriptyline Hydrochloride.

Identification (1) Weigh a quantity of powdered Amitriptyline Hydrochloride Tablets, equivalent to 0.1 g of Amitriptyline Hydrochloride according to the labeled amount. Add 10 mL of chloroform, shake thoroughly, and filter. Evaporate the filtrate on a water bath to about 2 mL, then add diethyl ether until turbidity is produced, and allow to stand. Filter the crystals formed through a glass filter (G4), and proceed as directed in the Identification (1) and (2) under Amitriptyline Hydrochloride.

(2) Determine the absorption spectrum of a solution of the crystals obtained in (1) (1 in 100,000) as directed under the Ultraviolet-visible Spectrophotometry: it exhibits a maximum between 238 nm and 240 nm, and a minimum between 228 nm and 230 nm.

Dissolution test Perform the test with 1 tablet of Amitriptyline Hydrochloride Tablets at 50 revolutions per minute according to Method 2 under the Dissolution Test, using 900 mL of diluted phosphate buffer solution, pH 6.8, (1 in 2) as the test solution. Take 20 mL or more of the dissolved solution 60 minutes after starting the test, and filter through a membrane filter with pore size of not more than 0.8 μm. Discard the first 10 mL of the filtrate, pipet the subsequent V mL of the filtrate, add diluted phosphate buffer solution, pH 6.8, (1 in 2) to make exactly V’ mL so that each mL contains about 11 μg of amitriptyline hydrochloride (C₂₀H₂₃N.HCl) according to the labeled amount, and use this solution as the sample solution. Separate, weigh accurately about 0.055 g of Amitriptyline Hydrochloride Reference Standard, previously dried at 105°C for 2 hours, and dissolve in diluted phosphate buffer solution, pH 6.8, (1 in 2) to make exactly 250 mL. Pipet 5 mL of this solution, add diluted phosphate buffer solution, pH 6.8, (1 in 2) to make exactly 100 mL, and use this solution as the standard solution. Determine the absorbances, A₇ and A₅, of the sample solution and the standard solution at 239 nm as directed under the Ultraviolet-visible Spectrophotometry.

The dissolution rate of Amitriptyline Hydrochloride Tablets in 60 minutes should be not less than 70%.

\[
\text{Dissolution rate} = W' \times \frac{A_7}{A_5} \times \frac{V'}{V} \times \frac{1}{C} \times 18
\]

W’: Amount (mg) of Amitriptyline Hydrochloride Reference Standard.
C: Labeled amount (mg) of amitriptyline hydrochloride (C₂₀H₂₃N.HCl) in 1 tablet.

Assay Weigh accurately and powder not less than 20 Amitriptyline Hydrochloride Tablets. Weigh accurately a portion of the powder, equivalent to about 0.02 g of amitriptyline hydrochloride (C₂₀H₂₃N.HCl), and add 75 mL of diluted methanol (1 in 2). After shaking for 30 minutes, add diluted methanol (1 in 2) to make exactly 100 mL, and filter. Discard the first 20-mL portion of the filtrate, measure exactly the subsequent 5-mL portion, add methanol to make exactly 100 mL, and use this solution as the sample solution.

Separately, weigh accurately about 0.02 g of Amitriptyline Hydrochloride Reference Standard, previously dried at 105°C for 2 hours, and dissolve in diluted methanol (1 in 2) to make exactly 100 mL. Measure exactly 5 mL of this solution, add methanol to make exactly 100 mL, and use this solution as the standard solution. Determine the absorbances, A₇ and A₅, of the sample solution and the standard solution at 239 nm as directed under the Ultraviolet-visible Spectrophotometry, respectively.

\[
\text{Amount (mg) of amitriptyline hydrochloride (C₂₀H₂₃N.HCl)} = \text{amount (mg) of Amitriptyline Hydrochloride Reference Standard} \times \frac{A_7}{A_5}
\]

Containers and storage Containers—Tight containers.

Ammonia Water

アンモニア水

Ammonia Water contains not less than 9.5 w/v% and not more than 10.5 w/v% of ammonia (NH₃: 17.03).

Description Ammonia Water occurs as a clear, colorless liquid, having a very pungent, characteristic odor. It is alkaline. Specific gravity d₂₀°C: 0.95 – 0.96

Identification (1) Hold a glass rod moistened with hydrochloric acid near the surface of Ammonia Water: dense white fumes are produced.

(2) Hold moistened red litmus paper near the surface of Ammonia Water: it turns blue.

Purity (1) Residue on evaporation—Evaporate 10.0 mL of Ammonia Water to dryness, and dry the residue at 105°C for 1 hour: the mass of the residue is not more than 2.0 mg.

(2) Heavy metals—Evaporate 5.0 mL of Ammonia Water to dryness on a water bath, add 1 mL of dilute hydrochloric acid to the residue, and evaporate to dryness. Dissolve the residue in 2 mL of dilute acetic acid, add water to make 50 mL, and perform the test using this solution as the test solution. Prepare the control solution with 2.5 mL of Standard Lead Solution, 2 mL of dilute acetic acid and water to make 50 mL (not more than 5 ppm).

(3) Potassium permanganate-reducing substances—To 10.0 mL of Ammonia Water add 40 mL of dilute sulfuric acid while cooling, and add 0.10 mL of 0.02 mol/L potassium permanganate V₅: the red color of the potassium permanganate does not disappear within 10 minutes.

Assay Measure exactly 5 mL of Ammonia Water, add 25 mL of water, and titrate with 0.5 mol/L sulfuric acid VS (indicator: 2 drops of methyl red TS).

\[
\text{Each mL of 0.5 mol/L sulfuric acid VS} = 17.031 \text{ mg of NH}_3
\]

Containers and storage Containers—Tight containers. Storage—Not exceeding 30°C.