and the same Rf value, and any spot from the sample solution other than that corresponding to the spot from the standard solution does not appear.

Loss on drying Not more than 2.0% (0.2 g, silica gel, 4 hours).

Assay Weigh accurately about 0.01 g each of Ergometrine Maleate and Ergometrine Maleate Reference Standard, previously dried in a desiccator (silica gel) for 4 hours, dissolve in water to make exactly 250 mL, and use these solutions as the sample solution and the standard solution, respectively. Pipet 2 mL of each solution into a separate brown glass-stoppered tube. To each tube add 4 mL of 4dimethylaminobenzaldehyde-ferric chloride TS, exactly measured, while cooling in an ice bath, then warm at 45°C for 10 minutes. Allow to stand at room temperature for 20 minutes, and perform the test with these solutions as directed under the Ultraviolet-visible Spectrophotometry, using a solution, prepared with 2 mL of water in the same manner, as the blank. Determine the absorbances, $A_{\rm T}$ and $A_{\rm S}$, of the subsequent solutions of the sample solution and the standard solution at 550 nm, respectively.

> Amount (mg) of $C_{19}H_{23}N_3O_2.C_4H_4O_4$ = amount (mg) of Ergometrine Maleate Reference Standard $\times \frac{A_T}{}$

Containers and storage Containers—Tight containers. Storage—Light-resistant.

Ergometrine Maleate Injection

マレイン酸エルゴメトリン注射液

Ergometrine Maleate Injection is an aqueous solution for injection. It contains not less than 90% and not more than 110% of the labeled amount of ergometrine maleate ($C_{19}H_{23}N_3O_2.C_4H_4O_4$: 441.48).

Method of preparation Prepare as directed under Injections, with Ergometrine Maleate.

Description Ergometrine Maleate Injection is a clear, colorless to pale yellow liquid.

pH: 2.7 - 3.5

Identification (1) Measure a volume of Ergometrine Maleate Injection, equivalent to 3 mg of Ergometrine Maleate according to the labeled amount, if necessary, dilute with water or evaporate on a water bath to make 15 mL, and use this solution as the sample solution. The sample solution shows a blue fluorescence.

- (2) To 1 mL of the sample solution obtained in (1) add 1 mL of ammonia TS, and extract with 20 mL of diethyl ether. To the diethyl ether extract add 1 mL of dilute sulfuric acid, shake, and warm to remove diethyl ether in a water bath. Cool, to the residue obtained add 2 mL of 4-dimethylaminobenzaldehyde-ferric chloride TS, and allow to stand for 5 to 10 minutes: a deep blue color develops.
- (3) To 5 mL of the sample solution obtained in (1) add 1 drop of potassium permanganate TS: a red color disappears immediately.

Assay Transfer an exactly measured volume of Ergometrine Maleate Injection, equivalent to about 2 mg of ergometrine maleate (C₁₉H₂₃N₃O₂.C₄H₄O₄), and add sodium chloride in a ratio of 0.3 g to 1 mL of the solution. To this mixture add 20 mL of diethyl ether and 2 mL of ammonia TS, shake, and extract. Further, extract with three 15-mL portions of diethyl ether, combine all the extracts, add 5 g of anhydrous sodium sulfate, filter through a pledget of absorbent cotton, and wash with three 5-mL portions of diethyl ether. Add the washings to the filtrate, shake with 5 mL of dilute sulfuric acid, evaporate the diethyl ether by warming in a current of nitrogen, to the remaining solution add water to make exactly 50 mL, and use this solution as the sample solution. Weigh accurately about 2 mg of Ergometrine Maleate Reference Standard, previously dried in a desiccator (silica gel) for 4 hours, add water to make exactly 50 mL, and use this solution as the standard solution. Transfer 2 mL each of the sample solution and the standard solution, accurately measured, to separate glass-stoppered test tubes, and proceed as directed in the Assay under Ergometrine Maleate.

Amount (mg) of ergometrine maleate (C₁₉H₂₃N₃O₂.C₄H₄O₄) = amount (mg) of Ergometrine Maleate Reference Standard

 $\times \frac{A_{\rm T}}{A_{\rm S}}$

Containers and storage Containers—Hermetic containers, and colored containers may be used.

Storage—Light-resistant, and in a cold place.

Ergometrine Maleate Tablets

マレイン酸エルゴメトリン錠

Ergometrine Maleate Tablets contain not less than 90% and not more than 110% of the labeled amount of ergometrine maleate (C₁₉H₂₃N₃O₂.C₄H₄O₄: 441.48).

Method of preparation Prepare as directed under Tablets, with Ergometrine Maleate.

Identification To a quantity of powdered Ergometrine Maleate Tablets, equivalent to 3 mg of Ergometrine Maleate according to the labeled amount, add 15 mL of warm water, shake, and filter: the filtrate shows a blue fluorescence. Proceed with this solution as directed in the Identification (2) and (3) under Ergometrine Maleate.

Content uniformity Transfer 1 tablet of Ergometrine Maleate Tablets to a glass-stoppered centrifuge tube, and add a solution of L-tartaric acid (1 in 100) to make exactly $V\,\text{mL}$ of a solution containing about 0.04 mg of ergometrine maleate ($C_{19}H_{23}N_3O_2.C_4H_4O_4$) per ml. Stopper the tube, shake for 30 minutes vigorously, centrifuge, and use the supernatant liquid as the sample solution. Separately, weigh accurately about 4 mg of Ergometrine Maleate Reference Standard, previously dried in a desiccator (silica gel) for 4 hours, dissolve in water to make exactly 100 mL, and use this solution as the standard solution. Pipet 4 mL each of the sample solution and the standard solution into separate brown glass-stoppered test tubes, add exactly 8 mL each of 4-