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Sulfadimethoxine Soluble Powder

» Sulfadimethoxine Soluble Powder contains Sulfadimethoxine Sodium equivalent to not less than 90.0 percent and not more than 110.0 percent of the labeled amount of sulfadimethoxine ($C_{12}H_{14}N_4O_4S$).

Packaging and storage—Preserve in tight, light-resistant containers, and store at controlled room temperature.

Labeling—Label it to indicate that it is for veterinary use only.

USP Reference standards ⟨11⟩—
USP Sulfadimethoxine RS

Identification—Shake a quantity equivalent to about 1 g with 5 mL of diluted hydrochloric acid and 10 mL of water. Filter, and to the filtrate add 2.5 N sodium hydroxide dropwise until a precipitate forms and redissolves. Add diluted hydrochloric acid dropwise until a precipitate forms. Collect the precipitate on a very fine filter, and wash it with water and with ether: the sulfadimethoxine so obtained meets the requirements for the *Identification* tests under *Sulfadimethoxine.*

Minimum fill ⟨755⟩: meets the requirements.

pH ⟨791⟩: between 7.0 and 8.0, in a solution (1 in 20).

Assay—

Mobile phase, Standard preparation, and *Chromatographic system*—Proceed as directed in the *Assay* under *Sulfadimethoxine.*

Assay preparation—Transfer an accurately weighed portion of Powder, equivalent to about 50 mg of sulfadimethoxine, to a 250-mL volumetric flask, add about 200 mL of *Mobile phase*, and swirl to dissolve. Dilute with *Mobile phase* to volume, and mix. Protect this solution from light.

Procedure—Proceed as directed in the *Assay* under *Sulfadimethoxine.* Calculate the quantity, in mg, of sulfadimethoxine ($C_{12}H_{14}N_4O_4S$) in the portion of Powder taken by the formula:

$$250C(r_U/r_S)$$

in which C is the concentration, in mg per mL, of USP Sulfadimethoxine RS in the *Standard preparation;* and r_U and r_S are the peak responses obtained from the *Assay preparation* and the *Standard preparation,* respectively.

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Chromatographic Database Information: Chromatographic Database

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