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# Sulfadimethoxine Oral Suspension

» Sulfadimethoxine Oral Suspension contains 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 50 mg with 50 mL of water, and add 2.5 N sodium hydroxide dropwise until the solution becomes clear. 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 [Sulfadimeth oxine](#).

**pH (791)**: between 5.0 and 7.0.

**Assay**—

*Mobile phase, Standard preparation, and Chromatographic system*—Proceed as directed in the Assay under [Sulfadimethoxine](#).

*Assay preparation*—Transfer an accurately measured volume of Suspension, previously mixed and free from air bubbles, 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 each mL of the Oral Suspension taken by the formula:

$$250(C/V)(r_U/r_S)$$

in which V is the volume, in mL, of Oral Suspension taken to prepare the Assay *preparation*; and the other terms are as defined therein.

**Auxiliary Information** - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
SULFADIMETHOXINE ORAL SUSPENSION	<a href="#">Documentary Standards Support</a>	SM32020 Small Molecules 3
REFERENCE STANDARD SUPPORT	RS Technical Services <a href="mailto:RSTECH@usp.org">RSTECH@usp.org</a>	SM32020 Small Molecules 3

**Chromatographic Database Information:** [Chromatographic Database](#)

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