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Sulfaquinoxaline Oral Solution

» Sulfaquinoxaline Oral Solution contains the equivalent of not less than 90.0 percent and not more than 110.0 percent of the labeled concentration of sulfaquinoxaline ($C_{14}H_{12}N_4O_2S$).

Packaging and storage—Preserve in tight, light-resistant containers.

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

USP REFERENCE STANDARDS (11)—

[USP Sulfaquinoxaline RS](#)

Identification—The retention time of the major peak in the chromatogram of the Assay preparation corresponds to that in the chromatogram of the *Standard preparation*, as obtained in the *Assay*.

DELIVERABLE VOLUME (698): meets the requirements.

pH (791): not less than 12.

Assay—

Mobile phase and Chromatographic system—Proceed as directed in the *Assay* under *Sulfaquinoxaline*.

Standard preparation—Dissolve an accurately weighed quantity of [USP Sulfaquinoxaline RS](#) in 0.01 N sodium hydroxide to obtain a solution having a known concentration of about 0.7 mg per mL. Dilute an accurately measured volume of this solution quantitatively with water to obtain a solution having a known concentration of about 0.15 mg per mL.

Assay preparation—Transfer an accurately measured volume of Oral Solution, equivalent to about 300 mg of sulfaquinoxaline, to a 2000-mL volumetric flask, dilute with water to volume, and mix.

Procedure—Separately inject equal volumes (about 8 μ L) of the *Standard preparation* and the *Assay preparation* into the chromatograph, record the chromatograms, and measure the responses for the major peaks. Calculate the quantity, in mg, of sulfaquinoxaline ($C_{14}H_{12}N_4O_2S$) in each mL of the Oral Solution taken by the formula:

$$2000(C/V)(r_u/r_s)$$

in which *C* is the concentration, in mg per mL, of [USP Sulfaquinoxaline RS](#) in the *Standard preparation*, *V* is the volume, in mL, of Oral Solution taken to prepare the *Assay preparation*, and r_u and r_s are the sulfaquinoxaline peak responses obtained from the *Assay preparation* and the *Standard preparation*, respectively.

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

Topic/Question	Contact	Expert Committee
SULFAQUINOXALINE ORAL SOLUTION	Documentary Standards Support	SM32020 Small Molecules 3
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	SM32020 Small Molecules 3

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

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