

Status: Currently Official on 16-Feb-2025  
Official Date: Official Prior to 2013  
Document Type: USP Monographs  
DocId: GUID-39D4AEC3-24C5-4F09-A65A-AEAD3587114\_1\_en-US  
DOI: [https://doi.org/10.31003/USPNF\\_M79405\\_01\\_01](https://doi.org/10.31003/USPNF_M79405_01_01)  
DOI Ref: tb6q7

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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  $\mu$ 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	<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](#)

**Most Recently Appeared In:**  
Pharmacopeial Forum: Volume No. Information currently unavailable

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