

Status: Currently Official on 16-Feb-2025
Official Date: Official Prior to 2013
Document Type: USP Monographs
DocId: GUID-892127BF-5914-4B4E-AC7B-E9A9C916286D_1_en-US
DOI: https://doi.org/10.31003/USPNF_M79610_01_01
DOI Ref: cc28v

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Sulfisoxazole Tablets

» Sulfisoxazole Tablets contain not less than 95.0 percent and not more than 105.0 percent of the labeled amount of $C_{11}H_{13}N_3O_3S$.

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

USP REFERENCE STANDARDS (11)—

[USP Sulfisoxazole RS](#)

Identification—Extract a quantity of powdered Tablets, equivalent to about 1 g of sulfisoxazole, with 50 mL of alcohol by boiling on a steam bath for 3 minutes, then immediately filter into a beaker. Allow to stand until a quantity of fine, needle-like crystals form. Cool, filter off the crystals, recrystallize from a small volume of alcohol, and dry at 105°: the crystals respond to *Identification* test A under *Sulfisoxazole*.

DISSOLUTION (711)—

Medium: dilute hydrochloric acid (1 in 12.5); 900 mL.

Apparatus 1: 100 rpm.

Time: 30 minutes.

Procedure—[NOTE—Because of the pH-dependent nature of the UV absorption spectrum, prepare the standard and specimen solutions in the same strength of acid at approximately equal concentrations.] Determine the amount of $C_{11}H_{13}N_3O_3S$ dissolved from UV absorbances at the wavelength of maximum absorbance at about 267 nm of filtered portions of the solution under test, suitably diluted with water, if necessary, in comparison with a Standard solution having a known concentration of [USP Sulfisoxazole RS](#) in the same medium.

Tolerances—Not less than 70% (Q) of the labeled amount of $C_{11}H_{13}N_3O_3S$ is dissolved in 30 minutes.

UNIFORMITY OF DOSAGE UNITS (905): meet the requirements.

Assay—Weigh and finely powder not less than 20 Tablets. Weigh accurately a portion of the powder, equivalent to about 800 mg of sulfisoxazole, transfer to a 250-mL conical flask, and proceed as directed in the [Assay](#) under [Sulfisoxazole](#), beginning with “add 50 mL of dimethylformamide.”

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

| Topic/Question | Contact | Expert Committee |
|----------------------------|---|---------------------------|
| SULFISOXAZOLE TABLETS | Documentary Standards Support | SM12020 Small Molecules 1 |
| REFERENCE STANDARD SUPPORT | RS Technical Services RSTECH@usp.org | SM12020 Small Molecules 1 |

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

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