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Status: Currently Official on 17-Feb-2025
Official Date: Official Prior to 2013
Document Type: USP Monographs
Docld: GUID-25748F80-B024-4189-9F96-480C963E8C55_1_en-US
DOI: https://doi.org/10.31003/USPNF_M29420_01_01
DOI Ref: 8xla1

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Ephedrine Sulfate Oral Solution

» Ephedrine Sulfate Oral Solution contains, in each 100 mL, not less than 360 mg and not more than 440 mg of ephedrine sulfate $[(C_{10}H_{15}NO)_2 + H_2SO_3]$.

Packaging and storage-Preserve in tight, light-resistant containers, and avoid exposure to excessive heat.

USP REFERENCE STANDARDS (11)-

USP Ephedrine Sulfate RS

Identification, <u>Angular rotation (781A)</u>—Use the 0.1 N sulfuric acid extract of the chloroform solution obtained as directed for *Assay preparation:* the angular rotation is levorotatory.

ALCOHOL DETERMINATION (611): between 2.0% and 4.0% of C₂H₅OH.

Assav-

Standard preparation—Dissolve an accurately weighed quantity of <u>USP Ephedrine Sulfate RS</u> in 0.1 N sulfuric acid to obtain a solution having a known concentration of about 20 µg per mL.

Assay preparation—Transfer 5 mL of Oral Solution to a separator, add 1 mL of 1 N sulfuric acid, and extract with 10 mL of chloroform. Discard the extract, and add 5 mL of potassium carbonate solution (1 in 5). After gas evolution has ceased, extract the solution with three 10-mL portions of chloroform, and combine the extracts in a second separator. Extract the chloroform solution with 50.0 mL of 0.1 N sulfuric acid. Filter the acid layer through paper, and dilute 5.0 mL of it with 0.1 N sulfuric acid to 100.0 mL.

Procedure—Proceed as directed for Procedure in the Assay under <u>Ephedrine Sulfate Capsules</u>. Calculate the quantity, in mg, of ephedrine sulfate $[(C_{10}H_{18}NO)_2 \cdot H_2SO_4]$ in the portion of Oral Solution taken by the formula:

$$C(A_{I}/A_{S})$$

in which C is the concentration, in μ g per mL, of <u>USP Ephedrine Sulfate RS</u> in the *Standard preparation*; and A_U and A_S are the absorbances of the solutions from the *Assay preparation* and the *Standard preparation*, respectively.

 $\textbf{Auxiliary Information} \cdot \textbf{Please} \ \underline{\textbf{check for your question in the FAQs}} \ \textbf{before contacting USP}.$

| Topic/Question | Contact | Expert Committee |
|---------------------------------|---------------------------------------|---------------------------|
| EPHEDRINE SULFATE ORAL SOLUTION | Documentary Standards Support | SM52020 Small Molecules 5 |
| REFERENCE STANDARD SUPPORT | RS Technical Services RSTECH@usp.org | SM52020 Small Molecules 5 |

Chromatographic Database Information: Chromatographic Database

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. PF 30(2)

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