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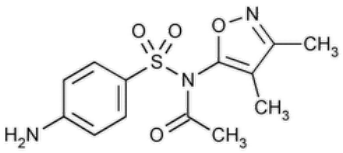
Sulfisoxazole Acetyl



$C_{13}H_{15}N_3O_4S$ 309.34

Acetamide, *N*-[(4-aminophenyl)sulfonyl]-*N*-(3,4-dimethyl-5-isoxazolyl)-.

N-(3,4-Dimethyl-5-isoxazolyl)-*N*-sulfanilylacetamide CAS RN®: 80-74-0; UNII: WBT5QH3KED.

» Sulfisoxazole Acetyl contains not less than 98.0 percent and not more than 100.5 percent of $C_{13}H_{15}N_3O_4S$, calculated on the dried basis.

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

USP Reference standards ⟨11⟩—

USP Sulfisoxazole Acetyl RS

Identification—

Change to read:

A: ▲*Spectroscopic Identification Tests* ⟨197⟩*, Infrared Spectroscopy: 197K*▲ (CN 1-May-2020)

Change to read:

B: ▲*Spectroscopic Identification Tests* ⟨197⟩*, Ultraviolet-Visible Spectroscopy: 197U*▲ (CN 1-May-2020) —

Solution: 10 µg per mL.

Medium: alcohol.

Absorptivities at 290 nm, calculated on the dried basis, do not differ by more than 3.0%.

Melting range ⟨741⟩: between 192° and 195°.

Loss on drying ⟨731⟩—Dry it at 105° for 3 hours: it loses not more than 0.5% of its weight.

Ordinary impurities ⟨466⟩—

Test solution: methanol.

Standard solution: methanol.

Eluant: a mixture of toluene and acetone (1:1).

Visualization: 1.

Other requirements—It meets the requirements for *Residue on ignition*, and *Selenium* under *Sulfisoxazole*.

Assay—Transfer about 1 g of Sulfisoxazole Acetyl, accurately weighed, to a 250-mL beaker. Add 15 mL of glacial acetic acid, swirl to dissolve, then add 25 mL of hydrochloric acid and 80 mL of water. Proceed as directed under *Nitrite Titration* ⟨451⟩, beginning with “Cool to about 15°.” Each mL of 0.1 M sodium nitrite is equivalent to 30.94 mg of $C_{13}H_{15}N_3O_4S$.

Auxiliary Information - Please check for your question in the FAQs before contacting USP.

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

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Chromatographic Database Information: Chromatographic Database

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