

**§ 444.62 Sisomicin sulfate.**

(a) *Requirements for certification—(1) Standards of identity, strength, quality, and purity.* Sisomicin sulfate is the sulfate salt of *O*-3-deoxy-4-*C*-methyl-3-(methylamino)-β-*L*-arabinopyranosyl(1→4)-*O*-[2,6-diamino-2,3,4,6-tetrahydroxy-α-*D*-glycero-*hex*-4-enopyranosyl(1→6)-2-deoxy-*L*-streptomine. It is a hygroscopic powder. It is so purified and dried that:

(i) Its potency is not less than 580 micrograms of sisomicin per milligram on an anhydrous basis.

(ii) [Reserved]

(iii) Its loss on drying is not more than 15.0 percent.

(iv) Its pH in an aqueous solution containing 40 milligrams per milliliter is not less than 3.5 and not more than 5.5.

(v) Its residue on ignition is not more than 1.0 percent.

(vi) Its specific rotation in an aqueous solution containing 10 milligrams per milliliter at 25° C is not less than +100° and not more than +110°.

(vii) It gives a positive identity test for sisomicin.

(2) *Labeling.* It shall be labeled in accordance with the requirements of § 432.5 of this chapter.

(3) *Requests for certification; samples.* In addition to complying with the requirements of § 431.1 of this chapter, each such request shall contain:

(i) Results of tests and assays on the batch for potency, loss on drying, pH, residue on ignition, specific rotation, and identity.

(ii) Samples required: 12 packages, each containing approximately 500 milligrams.

(b) *Tests and methods of assay.* Sisomicin is hygroscopic and care should be exercised during storage and weighing of samples.

(1) *Potency.* Proceed as directed in § 436.105 of this chapter, preparing the sample for assay as follows: Dissolve an accurately weighed sample in sufficient 0.1*M* potassium phosphate buffer, pH 8.0 (solution 3), to give a stock solution of convenient concentration. Further dilute an aliquot of the stock solution with solution 3 to the reference concentration of 0.1 microgram of sisomicin per milliliter (estimated).

(2) [Reserved]

(3) *Loss on drying.* Proceed as directed in § 436.200(c) of this chapter.

(4) *pH.* Proceed as directed in § 436.202 of this chapter, using an aqueous solution containing 40 milligrams of sisomicin per milliliter.

(5) *Residue on ignition.* Proceed as directed in § 436.207(a) of this chapter.

(6) *Specific rotation.* Accurately weigh the sample to be tested in a volumetric flask and dilute with sufficient distilled water to give a solution containing approximately 10 milligrams per milliliter. Proceed as directed in § 436.210 of this chapter, using a 1.0 decimeter polarimeter tube and calculate the specific rotation on an anhydrous basis.

(7) *Identity.* Proceed as directed in § 436.318 of this chapter, except:

(i) Prepare sample and standard solutions containing 10 milligrams of sisomicin per milliliter;

(ii) Use 5 microliters of the solutions to spot the chromatographic plates;

(iii) Remove the plate from the tank after 3 hours; and

(iv) The compound appears as a brown spot.

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**§ 444.70a Sterile streptomycin sulfate.**

(a) *Requirements for certification—(1) Standards of identity, strength, quality, and purity.* Sterile streptomycin sulfate is the sulfate salt of a kind of streptomycin or a mixture or two or more such salts. It is so purified and dried that:

(i) Its potency is not less than 650 micrograms and not more than 850 micrograms of streptomycin per milligram. If it is packaged for dispensing, its content is satisfactory if it is not less than 90 percent and not more than 115 percent of the number of milligrams of streptomycin that it is represented to contain.

(ii) It is sterile.

(iii) It is nonpyrogenic.

(iv) [Reserved]

(v) It contains no depressor substances.

(vi) Its loss on drying is not more than 5.0 percent.

(vii) Its pH in an aqueous solution containing 200 milligrams per milliliter