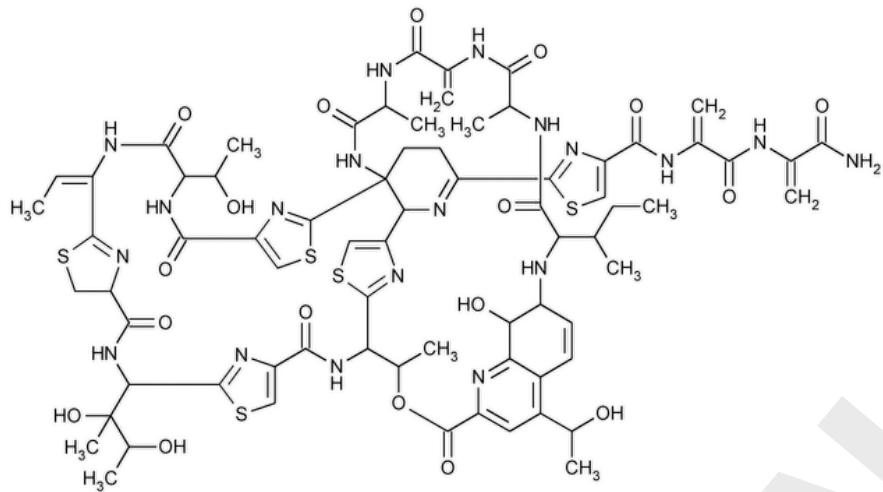


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# Thiostrepton



$C_{72}H_{85}N_{19}O_{18}S_5$  1664.89 CAS RN®: 1393-48-2; UNII: HR4S203Y18.

» Thiostrepton is an antibacterial substance produced by the growth of strains of *Streptomyces azureus* (Fam. Streptomycetaceae). It has a potency of not less than 900 USP Thiostrepton Units per mg, calculated on the dried basis.

**Packaging and storage**—Preserve in tight containers.

**Labeling**—Label it to indicate that it is for veterinary use only.

**USP REFERENCE STANDARDS (11)**—

[USP Thiostrepton RS](#)

**Change to read:**

**Identification,** ▲ **SPECTROSCOPIC IDENTIFICATION TESTS (197), Infrared Spectroscopy:** 197K ▲ (CN 1-May-2020)

**LOSS ON DRYING (731)**—Dry about 1 g of sample in vacuum at 60° for 3 hours: it loses not more than 5.0% of its weight.

**RESIDUE ON IGNITION (281):** not more than 1.0%.

**Assay**—Proceed as directed under [Antibiotics—Microbial Assays \(81\)](#), preparing the *Test Dilution* as follows. Transfer about 60 mg of Thiostrepton, accurately weighed, to a beaker. Add about 125 mL of dimethyl sulfoxide, and stir with a magnetic stirrer until dissolved (about 5 minutes). Transfer this solution to a 200-mL volumetric flask, washing the beaker and the stirring bar with dimethyl sulfoxide. Add the washings to the volumetric flask, dilute with dimethyl sulfoxide to volume, and mix. Dilute this solution quantitatively with dimethyl sulfoxide to obtain a *Test Dilution* having a concentration of thiostrepton assumed to be equal to the median dose of the Standard.

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

| Topic/Question             | Contact                                                                     | Expert Committee                              |
|----------------------------|-----------------------------------------------------------------------------|-----------------------------------------------|
| THIOSTREPTON               | <a href="#">Ying Han</a><br>Associate Science & Standards Liaison           | BIO42020 Biologics Monographs 4 - Antibiotics |
| REFERENCE STANDARD SUPPORT | RS Technical Services<br><a href="mailto:RSTECH@usp.org">RSTECH@usp.org</a> | BIO42020 Biologics Monographs 4 - Antibiotics |

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