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Tripeleannamine Hydrochloride Injection

» Tripeleannamine Hydrochloride Injection is a sterile solution of Tripeleannamine Hydrochloride in Water for Injection. It contains not less than 90.0 percent and not more than 110.0 percent of the labeled amount of tripeleannamine hydrochloride ($C_{16}H_{21}N_3 \cdot HCl$).

Packaging and storage—Preserve in tight, single-dose or multiple-dose containers as described in [Packaging and Storage Requirements \(659\)](#), [Injection Packaging](#). Store at a controlled room temperature, and protect from light.

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

USP REFERENCE STANDARDS (11)—

[USP Tripeleannamine Hydrochloride RS](#)

Identification—

A: [Identification—Organic Nitrogenous Bases \(181\)](#).

B: The retention time of the major peak in the chromatogram of the *Assay preparation* corresponds to that in the chromatogram of the *Standard preparation*, as obtained in the Assay.

BACTERIAL ENDOTOXINS TEST (85)—It contains not more than 4.6 USP Endotoxin Units per mg of tripeleannamine hydrochloride.

STERILITY TESTS (71)—It meets the requirements when tested as directed for *Membrane Filtration* under *Test for Sterility of the Product to be Examined*.

pH (791): between 6.0 and 7.0.

PARTICULATE MATTER IN INJECTIONS (788): meets the requirements for small-volume injections.

Other requirements—It meets the requirements under [Injections and Implanted Drug Products \(1\)](#).

Assay—

Mobile phase—Dissolve 4.8 g of monobasic potassium phosphate in 880 mL of water in a 2-liter cylinder. Add 720 mL of methanol and 400 mL of acetonitrile, mix, filter, and degas. Make adjustments if necessary (see *System Suitability* under [Chromatography \(621\)](#)).

Standard preparation—Dissolve an accurately weighed quantity of [USP Tripeleannamine Hydrochloride RS](#) quantitatively in water to obtain a solution having a known concentration of about 0.02 mg per mL. Protect this solution from light.

Assay preparation—Transfer an accurately measured volume of Injection, equivalent to about 4 mg of tripeleannamine hydrochloride, to a 200-mL volumetric flask, dilute with water to volume, and mix.

Chromatographic system (see [CHROMATOGRAPHY \(621\)](#))—The liquid chromatograph is equipped with a 254-nm detector, a 3.9-mm × 30-mm guard column that contains packing L1, and a 3.9-mm × 30-cm analytical column that contains packing L1. The flow rate is about 1 mL per minute. Chromatograph the *Standard preparation*, and record the peak responses as directed for *Procedure*: the relative standard deviation for replicate injections is not more than 2.0%.

Procedure—Separately inject equal volumes (about 20 µL) of the *Standard preparation* and the *Assay preparation* into the chromatograph, record the chromatograms, and measure the responses for the tripeleannamine peaks. Calculate the quantity, in mg, of tripeleannamine hydrochloride ($C_{16}H_{21}N_3 \cdot HCl$) in each mL of the Injection taken by the formula:

$$200(C/V)(r_U/r_S)$$

in which *C* is the concentration, in mg per mL, of [USP Tripeleannamine Hydrochloride RS](#) in the *Standard preparation*; *V* is the volume, in mL, of Injection taken to prepare the *Assay preparation*; and r_U and r_S are the peak responses obtained from the *Assay preparation* and the *Standard preparation*, respectively.

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

Topic/Question	Contact	Expert Committee
TRIPLENNAMINE HYDROCHLORIDE INJECTION	Documentary Standards Support	SM32020 Small Molecules 3
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	SM32020 Small Molecules 3

Chromatographic Database Information: [Chromatographic Database](#)

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