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Tetracycline Boluses

» Tetracycline Boluses contain the equivalent of not less than 90.0 percent and not more than 120.0 percent of the labeled amount of tetracycline hydrochloride ($C_{22}H_{24}N_2O_8 \cdot HCl$).

Packaging and storage—Preserve in tight containers.

Labeling—Label Boluses to indicate that they are intended for veterinary use only.

USP REFERENCE STANDARDS (11)—

[USP Tetracycline Hydrochloride RS](#)

Identification—Shake a suitable quantity of finely powdered Boluses with methanol to obtain a solution containing the equivalent of 1 mg of tetracycline hydrochloride per mL, and filter. Using the filtrate as the *Test Solution*, proceed as directed under [Identification—Tetracyclines \(193\)](#).

UNIFORMITY OF DOSAGE UNITS (905): meet the requirements for *Weight Variation*.

Loss on Drying (731)—Dry about 100 mg of finely powdered Boluses, accurately weighed, in a capillary-stoppered bottle in vacuum at a pressure not exceeding 5 mm of mercury at 60° for 3 hours: it loses not more than 3.0% of its weight, or where the Boluses have a diameter of greater than 15 mm, it loses not more than 6.0% of its weight.

Assay—Transfer not less than 2 Boluses to a high-speed blender jar containing an accurately measured volume of 0.1 N hydrochloric acid, so that the solution so obtained contains not less than 150 µg of tetracycline hydrochloride per mL, and blend for about 3 to 5 minutes. Proceed as directed for tetracycline under [Antibiotics—Microbial Assays \(81\)](#), using an accurately measured volume of this solution diluted quantitatively and stepwise with water to obtain a *Test Dilution* having a concentration assumed to be equal to the median dose level of the Standard.

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

Topic/Question	Contact	Expert Committee
TETRACYCLINE BOLUSES	Julie Zhang Associate Science & Standards Liaison	BIO42020 Biologics Monographs 4 - Antibiotics
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	BIO42020 Biologics Monographs 4 - Antibiotics

Chromatographic Database Information: [Chromatographic Database](#)

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