

Status: Currently Official on 17-Feb-2025
Official Date: Official Prior to 2013
Document Type: USP Monographs
DocId: GUID-4412FED8-5CC2-443F-9E91-86A144F9217E_1_en-US
DOI: https://doi.org/10.31003/USPNF.M4433_01_01
DOI Ref: j4h2x

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Ampicillin Boluses

» Ampicillin Boluses contain an amount of ampicillin (as the trihydrate) equivalent to not less than 90.0 percent and not more than 120.0 percent of the labeled amount of ampicillin ($C_{16}H_{19}N_3O_4S$).

Packaging and storage—Preserve in tight containers.

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

USP REFERENCE STANDARDS (11)—
[USP Ampicillin RS](#)

Identification—Powder 1 or more Boluses, and prepare a solution containing the equivalent of 10 mg of ampicillin per mL in a mixture of acetone and 0.1 N hydrochloric acid (4:1): the resulting solution responds to the *Identification* test under *Ampicillin Capsules*.

UNIFORMITY OF DOSAGE UNITS (905): meet the requirements.

LOSS ON DRYING (731): not more than 5.0%.

Assay—

Standard preparation—Prepare as directed for *Standard Preparation* under [Iodometric Assay—Antibiotics \(425\)](#), using [USP Ampicillin RS](#).

Assay preparation—Place not fewer than 5 Boluses in a high-speed glass blender jar containing an accurately measured volume of water, and blend for 4 ± 1 minutes. Dilute an accurately measured volume of this stock solution quantitatively and stepwise with water to obtain an *Assay preparation* containing about 1.25 mg of ampicillin per mL.

Procedure—Proceed as directed for *Procedure* under [Iodometric Assay—Antibiotics \(425\)](#). Calculate the quantity, in mg, of ampicillin ($C_{16}H_{19}N_3O_4S$) in each Bolus taken by the formula:

$$(T/D)(F/2000)(B - I)$$

in which *T* is the labeled quantity, in mg, of ampicillin in each Bolus; and *D* is the concentration, in mg per mL, of ampicillin in the *Assay preparation* on the basis of the labeled quantity in each Bolus and the extent of dilution.

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

Topic/Question	Contact	Expert Committee
AMPICILLIN BOLUSES	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](#)

Most Recently Appeared In:
Pharmacopeial Forum: Volume No. Information currently unavailable

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