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Ampicillin Soluble Powder

» Ampicillin Soluble Powder is a dry mixture of Ampicillin (as the trihydrate) and one or more suitable diluents and stabilizing agents. It contains 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 it to indicate that it is for veterinary use only.

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

Identification—Dissolve a quantity of it in a mixture of acetone and 0.1 N hydrochloric acid (4:1) to obtain a solution containing 10 mg of ampicillin per mL: the resulting solution responds to the *Identification* test under *Ampicillin Capsules*.

pH (791): between 3.5 and 6.0, in an aqueous solution containing the equivalent of 20 mg of ampicillin per mL.

WATER DETERMINATION, Method I (921): 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—Transfer an accurately weighed quantity of Soluble Powder, equivalent to about 125 mg of ampicillin, to a 100-mL volumetric flask, dissolve in and dilute with water to volume, and mix.

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 the portion of Soluble Powder taken by the formula:

$$(F/20)(B - I).$$

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

Topic/Question	Contact	Expert Committee
AMPICILLIN SOLUBLE POWDER	Documentary Standards Support	SM32020 Small Molecules 3

Chromatographic Database Information: [Chromatographic Database](#)

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