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# Amphotericin B for Injection

(This monograph has been updated to the current USP style. No revisions or changes to tests have been made.)

## DEFINITION

Amphotericin B for Injection is a sterile complex of amphotericin B, deoxycholate sodium, and one or more suitable buffers. It contains NLT 90.0% and NMT 120.0% of the labeled amount of amphotericin B ( $C_{47}H_{73}NO_{17}$ ).

## ASSAY

### PROCEDURE

**Standard:** [USP Amphotericin B RS](#)

**Sample solution 1** (where it is packaged as a single-dose container): Constitute Amphotericin B for Injection as directed in the labeling. Withdraw all of the withdrawable contents, using a suitable hypodermic needle and syringe, and dilute quantitatively and stepwise with [dimethyl sulfoxide](#) to obtain a solution containing about 20 µg/mL of amphotericin B.

**Sample solution 2** (where the labeling states the quantity of amphotericin B in a given volume of constituted solution): Constitute Amphotericin B for Injection as directed in the labeling. Withdraw an accurately measured volume of the resultant solution, using a suitable hypodermic needle and syringe, and dilute quantitatively and stepwise with [dimethyl sulfoxide](#) to obtain a solution containing about 20 µg/mL of amphotericin B.

**Analysis:** Proceed as directed for amphotericin B in [Antibiotics—Microbial Assays \(81\)](#), using an accurately measured volume of the *Sample solution* diluted quantitatively and stepwise with *Buffer B.10* to obtain a *Test Dilution* having a concentration assumed to be equal to the median dose level of the Standard.

**Acceptance criteria:** 90.0%–120.0%

## PERFORMANCE TESTS

• **UNIFORMITY OF DOSAGE UNITS (905):** Meets the requirements

## SPECIFIC TESTS

• **STERILITY TESTS (71):** It meets the requirements when tested as directed in [Test for Sterility of the Product to Be Examined, Membrane Filtration](#), 50 mg from each container being tested.

• **pH (791).**

**Sample solution:** 10 mg/mL of amphotericin B in [water](#)

**Acceptance criteria:** 7.2–8.0

• **LOSS ON DRYING (731).**

**Sample:** About 100 mg

**Analysis:** Dry the *Sample* in a capillary-stoppered bottle in a vacuum at a pressure not exceeding 5 mm of mercury at 60° for 3 h.

**Acceptance criteria:** NMT 8.0%

• **OTHER REQUIREMENTS:** It meets the requirements for [Labeling \(7\)](#), [Labels and Labeling for Injectable Products](#).

• **BACTERIAL ENDOTOXINS TEST (85):** It contains NMT 5.0 USP Endotoxin Units/mg of amphotericin B. For products used or labeled for intrathecal injection, it contains NMT 0.9 USP Endotoxin Units/mg of amphotericin B.

## ADDITIONAL REQUIREMENTS

• **PACKAGING AND STORAGE:** Preserve as described in [Packaging and Storage Requirements \(659\)](#), [Injection Packaging, Packaging for Constitution](#), in a refrigerator and protected from light.

• **LABELING:** Label it to indicate that it is intended for use by intravenous infusion to hospitalized patients only, and that the solution should be protected from light during administration.

• **USP REFERENCE STANDARDS (11).**

[USP Amphotericin B RS](#)

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

Topic/Question	Contact	Expert Committee
AMPHOTERICIN B FOR INJECTION	<a href="#">Jennifer Tong Sun</a> Senior Scientist II	BIO42020 Biologics Monographs 4 - Antibiotics

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