



Certificate of Analysis

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Product Amphotericin B Catalog No.: 6930 Batch No.: 1

Name:

CAS Number: 1397-89-3

 $\beta\text{-D-mannopyranosyl}) oxy] -1, 3, 5, 6, 9, 11, 17, 37 - octahydroxy -15, 16, 18 - trimethyl -13 - oxo -14, 39 - dioxabicyclo [33.3.1]$

nonatriaconta-19,21,23,25,27,29,31-heptaene-36-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₇H₇₃NO₁₇.3½H₂O

Batch Molecular Weight: 987.14

Physical Appearance: Yellow solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 92.4% purity

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 57.19 8.17 1.42

Found 57.2 7.99 1.57

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use



Product Information

Print Date: Nov 4th 2025

Batch No.: 1

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Product Amphotericin B

Name:

CAS Number: 1397-89-3

IUPAC Name: (1R,3S,5R,6R,9R,11R,15S,16R,17R,18S,19E,21E,23E,25E,27E,29E,31E,33R,35S,36R,37S)-33-[(3-Amino-3,6-dideoxy-

β-D-mannopyranosyl)oxy]-1,3,5,6,9,11,17,37-octahydroxy-15,16,18-trimethyl-13-oxo-14,39-dioxabicyclo[33.3.1]

nonatriaconta-19,21,23,25,27,29,31-heptaene-36-carboxylic acid

Description:

Amphotericin B forms nonselective monovalent ion channels within lipid bilayers. Amphotericin B binds ergosterol in the cell membrane. Antifungal and antiprotozoal. Amphotericin B can be used in a small molecule cocktail to generate 3D culture of lung alveolar cells (see below protocol). For more information about how Amphotericin B may be used, see our protocol: 3D Culture of Lung Alveolar Cells

Physical and Chemical Properties:

Batch Molecular Formula: C₄₇H₇₃NO₁₇.3½H₂O

Batch Molecular Weight: 987.14 Physical Appearance: Yellow solid

Minimum Purity: ≥90%

Batch Molecular Structure:

Storage: Store at -20°C. This product is packaged under an inert atmosphere.

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 20 mM

Stability and Solubility Advice:

Catalog No.: 6930

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Muruglia et al (2019) Small-molecule ion channels increase host defences in cystic fibrosis airway epithelia. Nature. 567 405. PMID: 30867598.

Lewis (2011) Current concepts in antifungal pharmacology. Mayo Clin.Proc. **86** 805. PMID: 21803962. **Gallis** *et al* (1990) Amphotericin B: 30 years of clinical experience. Rev.Infect.Dis. **12** 308. PMID: 2184499.

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