



Certificate of Analysis

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Product Name: Daptomycin Catalog No.: 3917 Batch No.: 2

CAS Number: 103060-53-3

 $IUPAC\ Name: N-(1-Oxodecyl)-L-tryptophyl-D-asparaginyl-L-\alpha-aspartyl-L-threonylglycyl-L-ornithinyl-L-\alpha-aspartyl-D-alanyl-D-alanyl-D-a$

aspartylglycyl-D-seryl-(3R)-3-methyl-L- α -glutamyl- α ,2-diamino- γ -oxo-benzene butanoic acid (13-4) lactone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{72}H_{101}N_{17}O_{26}^{\cdot 4H_2O}$

Batch Molecular Weight: 1692.73

Physical Appearance: Pale yellow solid

Solubility: DMSO to 100 mM water to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 98.3% purity

1H NMR: Consistent with structure

Mass Spectrum: - Not Fully Tested • Researc Dogsistry to with structumen or Veterinary Use





Product Information

Print Date: May 14th 2015

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aspartylglycyl-D-seryl-(3R)-3-methyl-L- α -glutamyl- α ,2-diamino- γ -oxo-benzene butanoic acid (13-4) lactone

Description:

Lipopeptide, calcium-dependent antibiotic. Exhibits potent bacteriocidal activity against most gram-positive bacteria in vitro and in vivo, including antibiotic-resistant strains such as MRSA and VRE. Disrupts plasma membrane function; activity results in membrane depolarization leading to inhibition of protein, DNA and RNA synthesis.

Physical and Chemical Properties:

Batch Molecular Formula: C₇₂H₁₀₁N₁₇O₂₆.4H₂O

Batch Molecular Weight: 1692.73 Physical Appearance: Pale yellow solid

Minimum Purity: >95%

Batch Molecular Structure:

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM water to 20 mM

Stability and Solubility Advice:

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. Our standard recommendations are:

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:

Tally and DeBruin (2000) Development of daptomycin for gram-positive infections. J.Antimicrob Chemother. **46** 523. PMID: 11020247. **Jung** *et al* (2004) Structural transitions as determinants of the action of the calcium-dependent antibiotic daptomycin. Chem.Biol. **11** 949.

PMID: 15271353.

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