

## Certificate of Analysis

**PRODUCT:**

**Alamethicin**

[U-22324; N-Acetyl-2-methylalanyl-L-prolyl-2-methylalanyl-L-alanyl-2-methylalanyl-L-alanyl-L-glutaminy-2-methylalanyl-L-valyl-2-methylalanylglycyl-L-leucyl-2-methylalanyl-L-prolyl-L-valyl-2-methylalanyl-2-methylalanyl-L- $\alpha$ -glutamyl-N1-[(2R)-1-hydroxy-3-phenylpropan-2-yl]-L-glutamamide]; from *Trichoderma viride*

**C<sub>92</sub>H<sub>150</sub>N<sub>22</sub>O<sub>25</sub>, CAS# [27061-78-5], M.W. 1964.3**

**PRODUCT NUMBER:**

A-1286

**LOT NUMBER:**

L1523

**APPEARANCE:**

Off-white to beige powder

**SOLUBILITY:**

DMSO: 10mg/ml Clear Solution  
CH<sub>3</sub>OH: 10mg/ml Clear Solution

**PURITY (TLC):**

*\*Detection: I2 with H<sub>2</sub>SO<sub>4</sub> and heat*

>99% (NP, CH<sub>2</sub>Cl<sub>2</sub>, CH<sub>3</sub>OH 3:1)  
>99% (RP C18, CH<sub>3</sub>OH, H<sub>2</sub>O 9:1)

**MELTING POINT:**

266 – 268°C

**PRODUCT INFORMATION:**

Peptide antibiotic Ionophore that can act as a monovalent cation ionophore. Can mimic nerve action potential across artificial membranes. Membrane permeabilizing antibiotic. Applications include increasing [<sup>32</sup>P] incorporation into phosphatidylinositol 4-phosphate and permeabilization of sarcoplasmic reticulum vesicles. Causes fusion of lipid vesicles.

**STORAGE & HANDLING:**

**Store desiccated at -20°C. WARNING: TOXIC!**

CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KLS