Bacitracin
Cell Culture Tested

Product Code: TC201

Product Description:
Molecular Weight: 1422.69
Molecular Formula: C_{66}H_{103}N_{17}O_{16}S
CAS No: 1405-87-4
Synonym: Ayfivin; Baciguent; Baci-Jel; Baciliquin; Bacitek Ointment; Fortracin; Parentracin; Penitracin; Topitracin; USAF CB-7; Zutracin

Bacitracin is a mixture of cyclic polypeptides, synthesized by bacilli belonging to Bacillus subtilis and Bacillus licheniformis. It acts by interfering with dephosphorylation of isoprenyl pyrophosphate, a molecule that carries the building-blocks of bacterial cell wall outside of the inner membrane.

This is effectively used against Gram-positive bacteria.

Directions:
In cell culture applications, bacitracin is generally used at 50 - 100mg/ml.

Preparation instructions:
Bacitracin is readily soluble in water as well as methanol and ethanol. Bacitracin solution should be sterilized by filtering through a sterile membrane filter with a porosity of 0.22 micron or less.

Quality Control:
Appearance
Yellow powder.

Solubility
Clear yellow solution at 5gm in 100ml of water.

Loss on drying (105°C; 1 h)
NMT 5%

Antibiotic Sensitivity
Complies

Activity
60.00 -0.00

Cell Culture Test
Passes

Storage and Shelf Life:
Stability of bacitracin solution depends on temperature and pH. Aqueous solutions degrade rapidly at room temperature and need to be stored at 2° to 8°C.
Bacitracin solution is relatively stable at acidic pH but tends to lose potency above pH 9.
Store at 2° to 8°C.
Shelf life is 36 months.
Use before expiry date given on the product label.

Disclaimer:
User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ Publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

Email: info@himedialabs.com Website: www.himedialabs.com