

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; Bacilquin;
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.

Revision : 0 / 2014

Disclaimer :

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