Product: Penicillin G potassium, USP

ALTERNATE NAME: Benzylpenicillin potassium salt

CATALOG #: 2504-25, 100

AMOUNT: 25 MU, 100 MU

STRUCTURE:

MOLECULAR FORMULA: C₁₆H₁₇KN₂O₄S

MOLECULAR WEIGHT: 372.49

CAS No. 113-98-4

APPEARANCE: White to off-white powder

SOLUBILITY: H₂O

POTENCY: 1440-1680 u/mg

STORAGE: Store at +4°C. Protect from air and moisture

DESCRIPTION: Penicillin is a member of the β-lactam antibiotics. β-Lactams

interfere with PBP (penicillin binding protein) activity involved in the final phase of peptidoglycan synthesis. PBP's are enzymes which catalyze a pentaglycine crosslink between alanine and lysine residues providing additional strength to the cell wall. Without a pentaglycine crosslink, the integrity of the cell wall is severely compromised and ultimately leads to cell lysis and death. Resistance to β -lactams is commonly due to cells containing plasmid encoded β -lactamases. Penicillin can be used as a selective agent in several types of isolation

media.

HANDLING: Do not take internally. Wear gloves and mask when handling

the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Amphotericin B (Cat. No. 2497-250, 1G, 5G) Ampicillin trihydrate (Cat. No. 2483-1 G, 5G, 25 G) Ampicillin sodium (Cat. No. 2484-1G, 5G, 25G)

Betulinic Acid (Cat. No. 1552-25) Bexarotene (Cat. No. 1575-5, 50)

Blasticidin S, Hydrochloride (Cat. No. 1859-25,100)

Capecitabine (Cat. No. 1741-100, 1000)

Carboplatin (Cat. No. 1553-100)

Chloramphenicol (Cat. No. 2486-25G, 100G, 500G)

Cisplatin (Cat. No. 1550-100,1000)

Cycloheximide (Cat. No. 1041-1G, 5G)

Cycloheximide (100 mM) (Cat. No. 1041-1)

Daunorubicin.HCl (1524-10,50,500)

Doxorubicin HCI (Cat. No. 1527-5)

Fludarabine Phosphate (Cat. No. 1763-10, 50) G-418 Sulfate (Cat. No. 1557-100, 5G, 25G) Gemcitabine Hydrochloride (Cat. No. 1759-25, 100)

Genistein (Cat. No. 1533-10) Nedaplatin (Cat. No. 1576-5) Oxaliplatin (Cat. No. 1577-25) Paclitaxel (Cat. No. 1567-25)

Penicillin G sodium (Cat. No. 2503-100, 500)
Polymyxin B Sulfate (Cat. No. 2496-10, 50, 100)

Puromycin DiHydrochloride (Cat. No. 1860-25, 100, 250, 500,1000) EZSolution™ Puromycin Dihydrochloride (Cat. No. 1861-100)

Streptozocin (Cat. No. 1930-100, 500, 1000) Tamoxifen Citrate (Cat. No. 1551-1000)

FOR RESEARCH USE ONLY! Not to be used in humans.