

CARBENICILLIN, DISODIUM SALT, 5G**PG-853-5G**

Carbenicillin Disodium Salt is a broad-spectrum β -lactam antibiotic commonly used in molecular biology and microbiology laboratories for the selection and maintenance of plasmid-containing bacterial cultures. It is frequently used as an alternative to ampicillin due to its greater stability in bacterial culture media, reducing the occurrence of satellite colonies during recombinant protein expression and cloning experiments.

Details

Product Name	Carbenicillin, Disodium Salt
Description	A semi-synthetic β -lactam antibiotic used for the selective growth of plasmid-bearing bacterial cells in molecular biology and microbiology applications.
Molecular Weight	422.36 g/mol
Appearance	White to off-white powder
Molecular Formula	$C_{17}H_{16}N_2Na_2O_6S$
Solubility	Freely soluble in water
pH	6.0 – 8.0 (1% solution at 25°C)
CAS Number	4800-94-6
Storage Condition	Store at 2–8°C. For long-term storage, keep at –20°C. Protect from moisture and light.
Applications / Uses	Used for selection and maintenance of plasmid-containing <i>Escherichia coli</i> cultures, recombinant protein expression, molecular cloning, bacterial transformation experiments, and microbiological research.

Safety

May cause allergic reactions in individuals sensitive to penicillin-derived antibiotics. Avoid inhalation, ingestion, and contact with skin or eyes. Use appropriate PPE including gloves, lab coat, and safety glasses.