

Hygromycin B

Antibiotic for selection of cells

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Substance	Cat#	Package size
Hygromycin B powder	M3125.0500	500mg
Hygromycin B powder	M3125.0001	1g
Hygromycin B powder	M3125.0005	5 x 1g
Hygromycin B solution (50mg/ml)	M3126.0010	10mL
Hygromycin B solution (50mg/ml)	M3126.0020	20mL

Description

Hygromycin B is a unique aminoglycoside antibiotic produced by *Streptomyces hargreavesii*. It can be used as a selective antibiotic in molecular genetics and in cell culture experiments to inhibit the growth of prokaryotic (bacteria) and eukaryotic microorganisms (yeasts) as well as mammalian cells. Hygromycin B inhibits the protein synthesis at the translocation step by interfering with the 70S ribosome causing misreading of the mRNA. It is effective on most bacteria, fungi and higher eukaryotes.

Features and Applications

- Hygromycin B is used as selection antibiotic
- Hygromycin B is inactivated by Phosphotransferase
- Transfections carrying the hph-gene are resistant against Hygromycin B
- Transfected cells are most often stable
- Also supplied as sterile solution
- Hygromycin B is a broad band antibiotic
- Hygromycin B is toxic against all pro- and eukaryotes
- Shipped as sterile solution or as non-sterile powder
- High activity
- Highly pure

Specifications

Activity (powder)	1 x 10 ⁶ units/g
Concentration (solution)	50mg/mL
Recommended working concentration	100µg/mL up to 800µg/mL
Heavy metals	< 20 ppm
Endotoxin	< 10 EU/mL
Shelf life	> 2 years
Storage temperature (powder)	RT
Storage temperature (solution)	+ 4°C

NOTE: Hygromycin B is light sensitive. Hygromycin B should be protected from light during storage