

# Genaxxon BioScience

## Hygromycin B

Antibiotic for selection of cells

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

### Description

Hygromycin B is a unique aminoglycoside antibiotic produced by *Streptomyces hagsroscopicus*. 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 <sup>6</sup> units/g
Concentration (solution)	50 mg/ml
Recommended working concentration	100 µg/ml up to 800 µg/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