



## HYGROMYCIN B

**Selection antibiotic for cells transfected with plasmids containing the Hygro<sup>R</sup> gene ([hph](#) gene).**

Hygromycin B is an aminoglycoside antibiotic produced by *Streptomyces hygrosopicus*. It inhibits protein synthesis by interfering with translocation and causing mistranslation at the 80S ribosome. Hygromycin B is effective on most bacteria, fungi and higher eukaryotes. Resistance to hygromycin is conferred by the *hph* gene from *E. coli*. Many InvivoGen vectors as well as many other commercially available vectors carry the *hph* gene. In InvivoGen's plasmids, hygromycin B is used as a single selection agent in bacteria as well as in eukaryotic cells. Hygromycin B is normally used at a concentration of 50-200µg/ml for selection in mammalian cells and 100µg/ml in bacterial.

Two grades of hygromycin B are available:

- **Hygromycin B** (purity >85%)
- **HygroGold<sup>TM</sup>** (purity >98%)

**Contents and Storage:**

Hygromycin B and HygroGold<sup>TM</sup> are provided as 100 mg/ml yellow solutions. HygroGold<sup>TM</sup> is also available as a powder. These products are shipped at room temperature and upon receipt should be stored at -20°C. They are stable for at least one year when stored at -20°C.

For your convenience, InvivoGen also offers a pre-weighed LB-based medium in individual sealed bags already containing hygromycin. No autoclaving required, prepare media in 5 min. with a microwave oven. (See Cat No fas-hg-l and fas-hg-s)

Description	Packaging	Cat No
<b>Hygromycin B &gt;85% pure</b>		
1 g liquid @ 100 mg/ml	5 X 2 ml tubes	ant-hm-1
5 g liquid @ 100 mg/ml	1 x 50 ml bottle	ant-hm-5
<b>HygroGold &gt;98% pure</b>		
1 g liquid @ 100 mg/ml	5 X 2 ml tubes	ant-hg-1
5 g liquid @ 100 mg/ml	1 x 50 ml bottle	ant-hg-5
10g powder		ant-hg-p