

# Calbiochem® Antibiotics and Selection Agents

## Consistent quality at affordable prices!

### G418 Sulfate, Cell Culture Tested

Cat. No. 345810

Size	Price
250 mg	\$35
500 mg	\$45
1 g	\$59
5 g	\$186
25 g	\$826

An aminoglycoside related to gentamycin that inhibits prokaryotic and eukaryotic protein synthesis. Toxic to bacteria, yeast, protozoans, helminths, higher plants, and mammalian cells.

Widely used in the selection of eukaryotic expression

vectors carrying the bacterial *neo<sup>r</sup>/kan<sup>r</sup>* genes. The product of these genes, aminoglycoside 3 $\beta$ -phosphotransferase, inactivates G418, neomycin, and kanamycin by phosphorylation. Introduction of either of these genes into cells can confer resistance to G418, which enables cells to grow in media containing G418.

*Potency:  $\geq 730 \mu\text{g}/\text{mg}$ . Purity:  $\geq 98\%$  by TLC.*

Also available as ready-to-use solution (Cat. No. 345812).

### Hygromycin B, *Streptomyces* sp.

Cat. No. 400051

Size*	Price
100 KU (~89 mg)	\$39
1 MU (~890 mg)	\$122
5 MU (~4.50 g)	\$478
10 MU (~9.0 g)	\$849

A unique aminoglycoside antibiotic that inhibits the growth of prokaryotic (bacteria) and eukaryotic microorganisms (yeast) and mammalian cells.

Inhibits protein synthesis at the translocation step on the 70S ribosome and causes misreading

of the mRNA. *Hph*, a gene from *E. coli*, encodes resistance to hygromycin B and can be isolated and cloned by recombinant DNA techniques. This hygromycin B-resistance gene is particularly useful for identification or selection of recombinant clones in a variety of cell types. Hygromycin B penetrates cells that have been permeabilized by virus infection. It can act as an effective antiviral agent. *Purity: >80% by HPLC. Microbiological assay: 350,000 - 500,000 units/ml. Bioassay: 350-450 units/mg Hygromycin B. RTECS WK2130000, CAS 31282-04-9. Also available as cell culture tested solutions (Cat. Nos. 400052 and 400053) and as a lyophilized solid (Cat. No. 400050).*

\*Note: 1 KU = 1,000 units; 1 MU = 1,000,000 units.

**FREE  
Gift!**

Purchase \$500 or more of G418 and/or Hygromycin B (or a combination of both) on a single order and choose a FREE gift. \*

Choose from:

1. A wireless optical mouse
2. A \$25 iTunes gift card

To redeem, visit:

[www.calbiochem.com/g418promo](http://www.calbiochem.com/g418promo)

\*Void where prohibited. Offer begins May 1, 2006 and expires August 31, 2006. Limit one free gift per order. Not available on past orders. Direct U.S. orders only.

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