

#### Neo G-418 Sulfate, Solution, 100 % Activity (50 mg/ml)

#Cat: NB-58-0123B #Cat: NB-58-0123H Size: 10ml Size: 100ml

## Product Information

Neo G-418 Sulfate Solution, 100 % Activity (50 mg/ml) Cat. No. NB-58-0123B (10 ml), NB-58-0123H (100 ml)

### **General Information**

Neo G-418 is used in the selection and maintenance of eukaryotic cells, stable transfected with neomycin resistance genes. Neo G-418 is an aminoglycoside antibiotic, related to Gentamicin, and exhibits toxicity towards both eukaryotic and prokaryotic cells. It is produced by *Micromonospora rhodorangea* and acts by binding the ribosome, thus inhibiting protein synthesis in both prokaryotic and eukaryotic cells.

#### **Product Specifications**

Appearance	Clear frozen liquid
CAS No.	108321-42-2
Storage and shelf life	Store at ≤-15°C.
	Avoid repeated freeze-thaw cycles. Preparation of
	aliquots recommended.
	Once opened, store at +4°C and use within 4-6 weeks
Shipping conditions	Frozen (Dry Ice)
Thawing	Overnight at +2°C to +8°C. Swirl gently to homogenize.
Working concentration	Recommended final concentration (0.1 – 1.0 mg/ml)
	depending on the cell type:
	<ul> <li>HeLa: 200 – 600 μg/ml</li> </ul>
	<ul> <li>3T3 cells: 500 – 1000 μg/ml</li> </ul>
	<ul> <li>CHO: 200 – 400 μg/ml</li> </ul>
	<ul> <li>HEK 293: 500 – 800 μg/ml</li> </ul>
	<ul> <li>Jurkat cells: 600 – 700 μg/ml</li> </ul>

#### Instructions for Use

- Do not use Neo G-418 with antibiotic/antifungal preparations (e.g. Pen/Strep). These agents are competitive inhibitors of Neo G-418. Other antibiotics are potentially cross-reactive as well.
- Good laboratory practice requires optimal concentration of biologically active Neo G-418 to select and maintain cells. This must be determined for each set of growth conditions. Neo G-418 is used in the concentration range of 100 200 µg /ml for bacteria, or 200 500 µg /ml for most mammalian cells. Concentrations of Neo G-418 required for maintenance of selected cell lines are typically  $\leq$  50% compared to selection.
- It is recommended, whenever experimental conditions are altered, the optimal concentration of the product should be re-evaluated.



# **Precautions and Disclaimer**

This product is for research use only

# **Help Needed?**

If you have any further questions regarding this product, please do not hesitate to contact our cell culture experts by email (www.neo-biotech.com) or phone (+33 9 77 40 09 09).