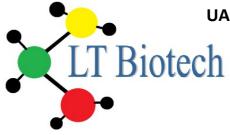
UAB "LT Biotech"



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G-418Sulfate, Solution, 100% Activity (50 mg/ml) 100 mlLTTran03 G-418 Sulfate, Solution, 100% Activity (50 mg/ml) 10 mlLTTran04

General Information

G-418 is used in the selection and maintenance of eucaryotic cells stably transfected with neomycin resistance genes. 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 eukaryoticcells.

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 $(0.1 - 1.0 \text{ mg/ml})$ depending on the cell type:
	HeLa: 200 – 600 μg/ml
	3T3 cells: 500−1000 µg/ml
	CHO:200−400 µg/ml
	P HEK 293:500 – 800 μg/ml
	 Jurkatcells:600-700 μg/ml

Important Information

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