



Genaxxon BioScience G-418 (Geneticin disulphate)

Antibiotic for selection of cells – CAS: 108321-42-2

fon:
+49 (0)7357 - 91 63 77
fax:
+49 (0)7357 - 91 63 78
eMail:
info@genaxxon.com
internet:
www.genaxxon.com

Substance	Cat#	Package size
G-418 sulfate	M3117.0250	250 mg
G-418 sulfate	M3117.0500	500 mg
G-418 sulfate	M3117.0001	1 g
G-418 sulfate	M3117.0005	5 g
G-418 sulfate	M3117.0010	10 g
G-418 sulfate solution (50mg/ml)	M3118.0020	20 ml
G-418 sulfate solution (50mg/ml)	M3118.0100	100 ml

Features and Applications:

The effective concentration of G-418 varies as to the cell type, media, growth concentration and the cell's metabolic rate and position in the cell cycle. Effective concentrations have been reported from 100 µg/ml up to 5 mg/ml and even higher. When using G-418 in a new cell system, a full dose curve is suggested, and with each new lot of G-418, several points on that curve should be retested, as the potency (determined in a standard B. subtilis assay) may not exactly correlate to your system.

- G-418 is used as selection antibiotic
- G-418 is inactivated by Neomycin Transferase
- Transfections carrying the Neomycin gene are resistant against G-418
- Transfected cells are most often transient stable

- G-418 is a broad band antibiotic
- G-418 is toxic against all pro- and eukaryotes
- Shipped as sterile solution
- Highly pure

Specifications:

Activity (powder)	> 650 µg/mg
Concentration (solution)	50 mg/ml
Recommended concentration	10 µg/ml up to 1 mg/ml
Heavy metals	< 20 ppm
Endotoxin	< 10 EU/ml
Shelf life	> 2 years
Storage temperature (powder)	RT
Storage temperature (solution)	- 20°C

Stability:

Powder: Avoid moisture uptake, as this can decrease the product's potency
Solution: General stable for 3 to 6 months when stored properly.