



**Cyrusbioscience**

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G418

**Product No.:** 101-108321-42-2

**Product Name:** G418

**Synonym:** G418 disulfate salt, NMD Inhibitor I, Geneticin

**M.W.:** 692.71

**Description:**

Geneticine (G418) is used for the selection of stably transformed cells, which have incorporated neomycin resistance gene bearing the transposons Tn5 and Tn601, respectively. Since this antibiotic is toxic for many cells, one has to determine the optimal concentration for each cell type. In general this concentration varies from 50 to 5000 ug/mL. At a concentration of 500 ug/mL, 70% of HepG2-cells are killed within one week of incubation and 100% stop growing. Geneticin is stable at 4°C.

**Usage:**

Stock concentration : 50mg/mL in water

Working concentration : 5ug/mL (bacteria and algae)

400ug/mL for selection(mammalian cells)

200ug/mL for maintenance(mammalian cells)

Note: All researchers should determine their optimum working concentration experimentally for each lot!

**Specification:**

Appearance: White to off white powder

Solubility(color): colorless to faint yellow

Purity: >98%

TLC: <3 spots

Potency: >700ug/mg

**Storage:** Store at 4°C

**Caution:** Toxic for reproduction