



G418 Antibiotic Solution (J847)

<u>Code</u>	<u>Description</u>	<u>Size</u>
J847-20ML	G418 Antibiotic Solution	20ML

General Information:

G418 Antibiotic Solution is a clear, colorless solution containing G418 Sulfate dissolved in deionized water at a concentration of 50 mg/ml active G418.

G418 is an antibiotic, which is related to Gentamycin. Its most common use is not as a standard antibiotic, but as a selection agent in molecular biology studies. G418 interferes with the function of 80S ribosomes and is quite toxic to bacteria, yeast and mammalian cells. Resistance to this compound is conferred by one of two dominant bacterial genes, Tn5 or Tn602, which can be expressed in eukaryotic cells.

Microbiological Potency: 50 mg/ml active G418

Storage/Stability:

Cold – 2-8 °C

Application Disclaimer

*For research use only.
Not for therapeutic or diagnostic use.*

Procedure

The optimal concentrations of G418 required to select and maintain cells must be determined experimentally for any given set of growth conditions and should be re-established any time those conditions are altered. In general, concentrations of 400 to 1000 µg/ml of G418 have been used for selection of mammalian cells, while concentrations of 200 to 300 µg/ml are used for maintenance.

The G418 solution may easily be diluted to reach any desired final antibiotic concentrations. For example, 2 ml of G418 antibiotic solution mixed with 98 ml of cell culture medium will yield a final G418 concentration in the culture medium of 1000 µg/ml.

Note: G418 antibiotic solution is hazardous. Please read the MSDS thoroughly before working with this material.

Related Products

Code	Product
N655-50ML	SeraFree™
N655-6X50ML	Cryopreservation Media RPMI
N676-50ML	SeraFree™ DMEM
N676-6X50ML	Cryopreservation Media
K812-500ML	PBS, 1X Sterile Solution
K814-500ML	PBS, 10X Sterile Solution
0105-500G	EDTA, Disodium Salt
0105-1KG	Dihydrate

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