

G418 Sulfate 溶液

Product introduction

Product name	Catalog No.	Size	concentration
G418 Sulfate 溶液	GX0418-5ml	5X1mL	50mg/ML

Product description

G418 Sulfate is an aminoglycoside antibiotic, related to Gentamicin, toxic to bacteria, yeast, protozoans and helminthes, and higher plant and mammalian cells. G418 Sulfate, also known as G418 Sulfate, is produced by the bacterium Micromonospora rhodorangea and acts by binding the ribosome, thus inhibiting protein synthesis in both prokaryotic and eukaryotic cells. G418 Sulfate is used as a selective agent in molecular genetics experiments. Resistance to G418 Sulfate is conferred by the neomycin resistance genes, which are dominant and are located on both transposons Tn601 (903) (aminoglycoside phosphotransferase 3'[I] or APH [3']I) and Tn5 (aminoglycoside phosphotransferase 3'[II] or APH [3']II). Liquid G418 Sulfate is supplied as a clear, colorless solution containing 50 mg/mL active G418 Sulfate.

Procedural guidelines

● Do not use G418 Sulfate with other antibiotic or antifungal preparations (e.g...Pen/Strep). These agents are competitive inhibitors of G418.

Other antibiotics are potentially cross-reactive as well.

● Liquid G418 Sulfate is pre-solublized in cell culture grade water.

● G418 Sulfate powder is insoluble in water. Stock solutions should be filter sterilized prior to storage at 2° C to 8° C.

● Once reconstituted, stock solutions of G418 Sulfate may be stored at 2° C to 8° C for up to 24 months.

● G418 Sulfate is stable for 8-10 days at 37° C.

Product use

The amount of G418 Sulfate required for selection of resistant cells varies with a number of factors, including cell type.

● For users who have traditionally used G418 Sulfate (liquid or powder) on the basis of microbiological potency, no change in the effective dose range is required when using either liquid or powder. Simply dilute to the proper concentration in culture medium.

● For users who have established the concentrations used for selection and maintenance based on the weight of powdered G418 Sulfate, a 20-30% reduction in the amount of G418 Sulfate needed should be realized when switching to liquid G418 Sulfate.

● Good laboratory practice requires that the optimal concentration of biologically-active G418 Sulfate required to select and maintain cells must be determined for each set of growth conditions.

WARNING! For Research Use Only. Not for use in diagnostic procedures. Wear appropriate protective eyewear, clothing.

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