

Datasheet

Paneticin G418

Selection reagent

Product	Description	Catalogue-No.	Size
Paneticin G418	Selection antibiotic, water soluble, powder	P06-16201P	1 g
		P06-16205P	5 g
		P06-16210P	10 g
Paneticin G418	Selection antibiotic, 50 mg/ml solution	P06-16220	20 ml
		P06-16200	100 ml

Product description

Paneticin G418 ($C_{20}H_{40}N_4O_{10}$) x $2H_2SO_4$ is a water soluble aminoglycoside antibiotic. It has a broad range of antibacterial activity. It also shows activity against *protozoa*, *cecal amoebiasis*, and *helminthes*. It is commonly known as geneticin selective antibiotic. G418 is an analog of neomycin sulfate, and has similar mechanism as neomycin. G418 blocks polypeptide synthesis by inhibiting the elongation step in both prokaryotic and eukaryotic cells. In a high concentration G418 can kill eukaryotic cells.

Storage conditions powder:

Storage conditions: 2 – 8°C (powder), -20 °C (solution)
 Stability: see Certificate of Analysis
 Filling: 1 g, 5 g, 10 g (powder)
 20 ml, 100 ml (solution)
 Other sizes on request

Special Advantages

G418 disulfate salt is an aminoglycoside antibiotic similar in structure to gentamicin used for selection and maintenance of prokaryotic and eukaryotic cells transfected with an iNOS promoter construct and neomycin resistance gene. Optimal concentrations for selection and maintenance vary by cell lines (between 100 – 500 µg/ml).

Instructions for use

G418 powder is soluble in water at 50 mg/ml.
 Stock solutions should be filter sterilized prior to storage.
 The 50 mg/ml Solution (P06-16220, P06-16200) is supplied ready to use.

G418 Selective Antibiotic is used in the concentration range of 100–200µg/ml for bacteria, or 200–500µg/ml for most mammalian cells, must be determined for each cell line.

Technical support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

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