

Certificate of Analysis



G418 Sulfate

Catalog Nos.

631308

Amount

5 g

Lot Number

19D195303

Description

For the selection and maintenance of eukaryotic cells which are stably transfected with vectors that express the neomycin resistance gene. Susceptibility of cells to G418 will vary with the cell type, media, growth conditions, degree of confluency for adherent cells, metabolic rate, and position in the cell cycle; therefore, we suggest performing a full dose-response curve for each cell system used. Effective concentrations have been reported from 100 µg/ml up to greater than 5 mg/ml. Solutions of G418 should be filter-sterilized for use in tissue culture.

Storage Conditions

- Powder: 4°C in a desiccator
- Solution (aqueous): in small aliquots, store at –20°C or –70°C; avoid multiple freeze/thaw cycles

Shelf Life

- Powder: 1 year from date of receipt under proper storage conditions
- Solution (aqueous): 3–6 months under proper storage conditions.

Formula

- $C_{20}H_{40}N_4O_{10} \cdot 2 H_2SO_4$

Molecular weight

- 692.70

Shipping Conditions

- Blue ice (4°C)

Form

- White to off-white powder

Quality Control Data

Characteristics determined to be the following:

	Result
Water content (<10%)	<u>5.0%</u>
Activity (>500 U/mg)	<u>708 U/mg</u>
Solubility (80 mg/ml, PBS)	<u>Pass</u>
Optical Rotation (1%, water) @ 25°C	<u>107°</u>

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

Takara Bio USA, Inc.

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