

Technical Information

Puromycin dihydrochloride Solution

With 10mg/ml Puromycin dihydrochloride in Cell Culture grade water

Product Code: A01038

Application:- Puromycin Dihydrochloride is an aminonucleoside antibiotic. It is produced by *Streptomyces alboniger*. The working of Puromycin is by inhibiting peptidyl transfer on both prokaryotic and eukaryotic ribosomes; resistance is conferred by the expression of the *pac* gene. Puromycin antibiotic ensures effective positive selection of cells expressing the puromycin-N-acetyltransferase (*pac*) gene. In mammalian cells, the recommended working concentration range for puromycin is 0.5 – 10 µg/ml. Different cell types and cell culture conditions may require different concentrations of selection antibiotic.

Puromycin is widely used in cell biology as a selection antibiotic agent in mammalian cell culture systems.

A01038 is a sterile filtered solution that contains 10mg/ml of Puromycin dihydrochloride in sterile cell culture grade.

Methodology

Recommended use concentration is 1-10ml/L. Sensitive cell lines may react differently to this product. Hence it is recommended to determine optimum usage dose empirically for individual cell line.

Quality control

Appearance

Pale yellow colored, cleared solution.

pH

5.70 -6.30

Osmolality in mOsm/Kg H₂O

40.00 -80.00

Cultural Response

No toxicity to cells.

Antibiotic sensitivity test

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Endotoxin Content

NMT 0.5EU/ml

Storage and Shelf Life

Store at -20°C. Repeated freezing and thawing should be avoided.

Shelf life of the product is 18 months

Once thawed, remaining portion can be aseptically dispensed into sterile container and frozen for future use.

Use before expiry date given on the product label.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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