

The User's Manual—MEM α , nucleosides

Basic Information Introduction

Product Introduction

MEM α , nucleosides (Minimum Essential Medium) is a widely used basal media, it contains non-essential amino acids, sodium pyruvate, lipoic acid, vitamin B12, biotin and ascorbic acid, and contains no proteins or growth factors. The product can support the growth of a variety of mammalian cell lines.



Application Scope

MEM α , nucleosides can support the growth of a variety of mammalian cell lines, it can be used on a variety of suspended and adherent mammalian cells, including keratinocytes, primary rat astrocytes, and human melanoma cells. The product can be used in the research and large-scale production of cell culture-based biologics, but cannot be directly used in the human body or used as a medication.

Shipping, Storage and Validity Period

Product	Catalog No.	Storage	Shipping	Validity Period
MEM α , nucleosides	LQ36, Liquid	2°C ~ 8°C, Protect from light	2°C ~ 8°C, Protect from light	12 months
MEM α , nucleosides	DP36, Powder	2°C ~ 8°C, Protect from light	RT, Protect from light	36 months

Protocol for Hydration of Powder Medium

1. Fill the mixing container with purified water (20 ~ 30°C) at 90% of the final volume.
2. Slowly add 10.13 g/L of powder medium with gentle stirring. Mix for 20 minutes.
3. Slowly add 2.383 g/L HEPES. Mix for 10 minutes.
4. Slowly add 2.20 g/L NaHCO₃ to the solution with gentle stirring, mix for 10 minutes.
5. Adjust the pH to 7.0 ~ 7.2 using 5M NaOH or 6M HCl solution, mix for 10 minutes.
6. Adjust the solution volume to 100% with purified water, mix for 5 minutes.
7. Filter immediately the media with a 0.22 μ m membrane filter.

Quality Index of Powder and Liquid Media

Product Index	MEM α , nucleosides (LQ36), Liquid	MEM α , nucleosides (DP36), Powder
Appearance	Red, clear liquid	Off pink powder
pH	7.0 ~ 7.6	7.0 ~ 7.6 (pre-filter)
Osmolality (mOsmol/kg)	270 ~ 320	270 ~ 320
Solubility	--	Dissolve well according to the protocol for hydration of powder medium
Endotoxin (EU/mL)	< 3	< 3
Sterility	Negative	--
Bioburden	--	Aerobic bacteria: < 200 CFU/g Molds and yeasts: < 50 CFU/g

【Technical Support】:

According to the terms of sales, please contact our technicians with any problems :

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