

MEM Dulbecco's Modification Amino Acids 50X

Product Code: AC004

Product Description :

AC004 is a powdered 50X concentrate of various amino acids present in Dulbecco's Minimum Essential Medium (DMEM). Addition of amino acid supplement to medium stimulates growth and prolongs viability of cells in culture.

Composition :

Ingredients	mg/L
AMINO ACIDS	
Glycine	1500.000
L-Arginine hydrochloride	4200.000
L-Cystine hydrochloride	3129.000
L-Glutamine	29200.000
L-Histidine hydrochloride monohydrate	2100.000
L-Isoleucine	5250.000
L-Leucine	5250.000
L-Lysine hydrochloride	7300.000
L-Methionine	1500.000
L-Phenylalanine	3300.000
L-Serine	2100.000
L-Threonine	4750.000
L-Tyrosine disodium salt	5190.000
L-Tyrtophan	800.000
L-Valine	4700.000

Directions :

1. Suspend 80.3gms in 900 ml tissue culture grade water with constant, gentle stirring until the powder is completely dissolved.
2. Solution will not be completely clear. Adjust the pH to pH 12 till the solution becomes completely clear.

3. Make up the final volume to 1000ml with tissue culture grade water.
4. Sterilize the solution immediately by filtering through a sterile membrane filter with a porosity of 0.22 micron or less.
5. Dispense as desired.
6. Store liquid solution at 2-8°C and in dark till use.

Material required but not provided :

Tissue culture grade water (TCL010)
1N Hydrochloric acid (TCL003)
1N Sodium hydroxide (TCL002)

Quality Control:

Appearance

White to Off-white, homogenous powder.

Solubility

Clear solution at 80.3gms/L.

Cultural Response

The growth promotion capacity of the medium is assessed qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts and comparing it with a control medium through three subcultures.

Endotoxin Content

NMT 1 EU/ml

Storage and Shelf Life:

Store at 2 - 8°C.
Shelf life of the product is 36 months.
Use before expiry date given on the product label.

Revision: 2 / 2022

Disclaimer :

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