

Technical Information

MEM Non Essential Amino Acids Solution 100X

Product Code: ACL1006

Application: - ACL1006 is a 100X concentrate of non essential amino acids present in the Minimum Essential Medium (MEM). Addition of amino acid supplement to medium stimulates growth and prolongs viability of cells in culture.

ACL1006 is a sterile filtered MEM non essential amino acid solution prepared in cell culture grade water.

Composition**

Ingredients	mg/Litre
AMINO ACIDS	
Glycine	750.000
L-Alanine	890.000
L-Asparagine monohydrate	1500.000
L-Aspartic acid	1330.000
L-Glutamic acid	1470.000
L-Proline	1150.000
L-Serine	1050.000

Methodology

For preparing 1X concentration of amino acid solution use 10ml of 100X solution of ACL1006 per liter of medium i.e. 10ml of 100X solution ACL1006 contains 1X amino acids.

Quality control

Appearance

Clear, colourless solution

pH

3.20 -3.80

Osmolality in mOsm/Kg H₂O

50.00 -90.00

Sterility

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

Cultural Response

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

Endotoxin Content

NMT 5EU/ml

Storage and Shelf Life

Store at 2 - 8°C. Shelf life of the product is 18 months. Use before expiry date given on the product label.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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