



## MEM-Non Essential Amino Acids (NEAA) 50X

**Product Code: AC005**

### Product Description :

AC005 is a powdered 50X concentrate of various non-essential amino acids present in Minimum Essential Medium (MEM). Addition of amino acid supplement to medium stimulates growth and prolongs viability of cells in culture.

### Composition :

Ingredients	mg/L
<b>AMINO ACIDS</b>	
Glycine	375.000
L-Alanine	445.000
L-Asparagine monohydrate	750.000
L-Aspartic acid	665.000
L-Glutamic acid	735.000
L-Proline	575.000
L-Serine	525.000

### Directions :

1. Suspend 4.1gms 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 4 till the solution becomes totally 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 4.1gms/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 1EU/ml

#### pH

3.00 -4.00

#### Osmolality in mOsm/Kg H<sub>2</sub>O

20.00 -60.00

### 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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