

**Minimum Essential Medium Non-Essential Amino Acids (100X)
(MEM-NEAA 100X)**

Catalog #:	116-078-721	4 x 100mL
	116-078-721EA	100mL
Osmolality:	300 ± 5% mOsm/Kg H ₂ O	
Store at:	2°C to 8°C	
Shipped at:	ambient temperature	

Description

Quality Biological's (QBI) Minimum Non-Essential Amino Acids (100X) is prepared from the following ACS grade amino acids: L-alanine, L-asparagine•H₂O, aspartic acid, L-glutamic acid, glycine, L-proline, L-serine in Quality Biological's Cell Culture Grade Water. The final product is sterile filtered through a 0.1µm filter.

Note: Most Biochemistry texts such as Mathews & van Holde¹, cite L-cysteine, L-glutamine, and L-tyrosine as being non-essential amino acids.

Applications

Minimum Non-Essential Amino Acids (100X) are frequently used in Cell Biology research.

The following are examples where MEM-NEAA 100X may be usefully employed:

- *To maintain cell culture growth²*
- *To study cellular protein metabolism²*

Directions

Dilute the MEM-NEAA 100X one hundred-fold in the appropriate cell culture medium.

Quality Control*General*

The quality of a product is insured through the establishment of standards for the selection of the materials used in its manufacture coupled with the establishment of formal protocols for its production.

Quality Control testing is used to determine whether the finished product meets or exceeds the standards established for it.

Product Specific Testing

Minimum Non-Essential Amino Acids (100X) is routinely tested to verify it meets product specifications for the following parameters:

- *pH*
- *Osmolality*
- *Microbiological Testing*
- *Performance Testing*

The test results of individual lots of Minimum Non-Essential Amino Acids (100X) are available on the QBI website.

References

1. Mathews, C.K. & van Holde, K.E., (1990) *Biochemistry*, pg.68, The Benjamin/Cummings Publishing Company, Inc.
2. Freshney, R.I. (1994) *Culture of Animal Cells: A Manual of Basic Technique*, 3rd Ed., Wiley-Liss, John Wiley & Sons, Inc.

Related Products

Cell Culture Grade Water, Ultra Pure

Catalog #	118-162-101	500mL
	118-162-101CS	10 x 500mL
	118-162-131	1000mL
	118-162-131CS	10 x 1000mL
	118-162-151	10 Liters
	118-162-161	20 Liters

QBI offers many types of basal media with and without **MEM NEAA (100X)**, (e.g., Dulbecco's Modified Eagle's Medium (DMEM), DMEM (LeBoeuf's modification), Iscove's Modification of Dulbecco's Medium (IMDM)) See the QBI website for a full listing of media.

All products sold by Quality Biological, Inc. are intended for research use only. This product has not been approved for diagnostic or IVD use.