



Minimal Essential Medium Non-Essential Amino Acids (100X Solution)

In many cell culture applications using defined media for the in vitro cultivation of cells, the addition of supplemental nutrients and reagents is required. Additives such as antibiotics, buffers, and stains are frequently used to prevent bacterial contamination, control pH, and visibly monitor media conditions. Other supplements such as amino acids and vitamins are useful for enriched media beyond their normal concentrations. Attachment factors and transport factors are added to growth media to facilitate rapid cell propagation and enhance proper cell metabolism. Still other media supplements may be added to create conditions which will elicit specific cellular responses and effects, such as altered protein biosynthesis, accelerated antibody production and secretion, toxic response mechanisms, etc. As a result, the availability of a wide variety of media supplements is desirable when designing cell culture experiments. Besides the listed amino acid and vitamin concentrates, MP can also provide the following media supplements (see catalog for complete listing)

Formulation (as 100X):

<i>Components</i>	<i>mg/L</i>	<i>Mol. Wt.</i>	<i>Mol. (mM)</i>
Amino Acids			
L-Alanine	890.00000	89.1	10
L-Asparagine H ₂ O	1500.00000	150.1	10
L-Aspartic Acid	1330.00000	133.1	10
L-Glutamic Acid	1470.00000	147.1	10
Glycine	750.00000	75.07	10
L-Proline	1150.00000	115.1	10
L-Serine	1050.00000	105.1	10

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