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TECHNICAL INFORMATION

Catalog Number: 1600449, 1600454
BME Vitamins (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):

- Buffers
- Attachment factors
- Miscellaneous Reagents
- Transport Factors
- Antibiotics
- Stains, indicators
- Lectins

Formulation (as 100X):

Components	mg/L	Mol. Wt.	Mol. (mM)
Vitamins			
Biotin	100.00000	244.3	0.41
Choline Chloride	100.00000	139.6	0.72
D-Calcium Pantothenate	100.00000	238.3	0.42
Folic Acid	100.00000	441.4	0.23
myo-Inositol	200.00000	180.2	1.11
Nicotinamide	100.00000	122.13	0.82
Pyridoxal HCl	100.00000	203.6	

Riboflavin	10.00000	376.4	
Thiamine HCl	100.00000	337.3	0.03
			0.30

Availability:

Amino Acid Concentrates:

Catalog Number	Description	Size
1600149	BME 100X (Modified) Amino Acids without L-glutamine	100 ml
1600154		500 ml
1601149	MEM 50X (Modified) Amino Acids without L-glutamine	100 ml

Non-Essential Amino Acid Concentrate:

Catalog Number	Description	Size
1681049	MEM 100X Non-Essential Amino Acids	100 ml

Vitamin Concentrates:

Catalog Number	Description	Size
1600449	BME 100X (Modified) Vitamins	100 ml
1601449	MEM 100X (Modified) Vitamins	100 ml