

Vitamins								
L-Ascorbic Acid • Na	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
D-Biotin	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Choline Chloride	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Folic Acid	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
<i>myo</i> -Inositol	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Lipoic Acid	—	—	0.0002	0.0002	0.0002	-	-	-
Niacinamide	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
D-Panthenic Acid • ½Ca	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Pyridoxal • HCl	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Riboflavin	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Thiamine • HCl	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Vitamin B ₁₂	0.00136	0.00136	0.00136	0.00136	0.00136	0.00136	0.00136	0.00136
Other								
Adenosine	0.01	—	—	—	—	0.01	0.01	0.01
Cytidine	0.01	—	—	—	—	0.01	0.01	0.01
2'-Deoxyadenosine	0.01	—	—	—	—	0.01	0.01	0.01
2'-Deoxycytidine • HCl	0.011	—	—	—	—	0.011	0.011	0.011
2'-Deoxyguanosine	0.01	—	—	—	—	0.01	0.01	0.01
Glucose	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Guanosine	0.01	—	—	—	—	0.01	0.01	0.01
Phenol Red • Na	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Pyruvic Acid	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Thioctic Acid	0.0002	0.0002	—	—	—	0.0002	0.0002	0.0002
Thymidine	0.01	—	—	—	—	0.01	0.01	0.01
Uridine	0.01	—	—	—	—	0.01	0.01	0.01
ADD								
L-Glutamine	—	—	0.292	—	0.292	0.292	—	0.292
NaHCO ₃	2.2	2.2	—	—	—	—	—	—

References

MEM Alpha

1. Stanners, C.P., et al., Two Types of Ribosome in Mouse-Hampster Hybrid Cells. *Nature New Biology*, 230, 52-54 (1971).
2. Stanners, C.P., and Goldberg, V.J., On the Mechanism of Neutropism of Vesicular Stomatitis Virus in Newborn Hampsters. *Studies With Temperature-Sensitive Mutants. J. Gen. Virol.* 29, 281-296 (1975).

MEM

3. Eagle, H., et al., *myo*-Inositol as an Essential Growth Factor for Normal and Malignant Human Cells in Tissue Culture. *J. Biol. Chem.*, **214**, 845-847(1956).
4. Eagle, H., *Media for Animal Cell Culture. Tissue Culture Association Manual*, **3**, 517-520 (1976).
5. Eagle, H., Amino Acid Metabolism in Mammalian Cell Cultures. *Science*, **130**, 432-437 (1959).
6. Eagle, H., Nutrition Needs of Mammalian Cells in Culture. *Science*, **122**, 501 (1955).

BG,JG,JF,MAM 07/18-1