

MEDIUM 199 WITH EARLE'S SALTS

Medium 199 with Earle's Salts and HEPES

Catalog # 36650

500 mL per bottle

Selection of suitable nutrient medium is dependent on type of cell, conditions of culture, and degree of chemical definition required for the cell culture application.

PRODUCT DESCRIPTION:

This product contains Earle's Salts, 25 mM Hepes, L-glutamine and Sodium Bicarbonate.

This product does not contain Antibiotics.

pH 7.2 - 7.6

Formulation is listed on reverse side.

STABILITY / STORAGE:

Store at 2 - 8°C.

Stable for one year from date of manufacture (refer to: Directions for use).

Contents guaranteed sterile if seal is not tampered with.

DIRECTIONS FOR USE:

This product contains the labile amino acid L-glutamine which has a half-life of approximately one month when stored at 2 - 8°C. For certain cell culture applications, medium stored for greater than two months following date of manufacture should be supplemented with additional L-glutamine. Add 5 mL of 200mM

L-glutamine (Cat# 07100) to 500 mL of medium to achieve a final concentration of 2 mM.

**THIS REAGENT IS FOR LABORATORY USE ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.**

MEDIUM 199 WITH EARLE'S SALTS

COMPONENT	36550 g/L
INORGANIC SALTS	
Calcium Chloride $\cdot 2\text{H}_2\text{O}$	0.265
Ferric Nitrate $\cdot 9\text{H}_2\text{O}$	0.00072
Magnesium Sulfate (anhydrous)	0.09767
Potassium Chloride	0.4
Sodium Acetate (anhydrous)	0.05
Sodium Chloride	6.8
Sodium Phosphate Monobasic (anhydrous)	0.122
AMINO ACIDS	
DL-Alanine	0.05
L-Arginine $\cdot \text{HCl}$	0.07
DL-Aspartic Acid	0.06
L-Cystine $\cdot \text{HCl} \cdot \text{H}_2\text{O}$	0.00011
L-Cystine $\cdot 2\text{HCl}$	0.026
DL-Glutamic Acid	0.1336
L-Glutamine	0.1
Glycine	0.05
L-Histidine $\cdot \text{HCl} \cdot \text{H}_2\text{O}$	0.02188
Hydroxy-L-Proline	0.01
DL-Isoleucine	0.04
DL-Leucine	0.12
L-Lysine $\cdot \text{HCl}$	0.07
DL-Methionine	0.03
DL-Phenylalanine	0.05
L-Proline	0.04
DL-Serine	0.05
DL-Threonine	0.06
DL-Tryptophan	0.02
L-Tyrosine $\cdot 2\text{Na} \cdot 2\text{H}_2\text{O}$	0.05766
DL-Valine	0.05
VITAMINS	
Ascorbic Acid $\cdot \text{Na}$	0.0000566
D-Biotin	0.00001
Calciferol	0.0001
Choline Chloride	0.0005
Folic Acid	0.00001
Menadione (sodium bisulfite)	0.000016
myo-Inositol	0.00005
Niacinamide	0.000025
Nicotinic Acid	0.000025
p-Amino Benzoic Acid	0.00005
D-Pantothenic Acid (hemicalcium)	0.00001
Pyridoxal $\cdot \text{HCl}$	0.000025
Pyridoxine $\cdot \text{HCl}$	0.000025
Retinol Acetate	0.00014
Riboflavin	0.00001
DL- α -Tocopherol Phosphate $\cdot \text{Na}$	0.00001
Thiamine $\cdot \text{HCl}$	0.00001
OTHER	
Adenine Sulfate	0.01
Adenosine Triphosphate $\cdot 2\text{Na}$	0.001
Adenosine Monophosphate $\cdot \text{Na}$	0.0002385

MEDIUM 199 WITH EARLE'S SALTS (continued)

OTHER (continued)	
Cholesterol	0.0002
Deoxyribose	0.0005
Glucose	1.0
Glutathione (reduced)	0.00005
Guanine·HCl	0.0003
HEPES	5.958
Hypoxanthine	0.0003
Phenol Red·Na	0.0213
Polyoxyethylenesorbitan Monooleate (Tween 80)	0.02
Ribose	0.0005
Sodium Bicarbonate	2.2
Thymine	0.0003
Uracil	0.0003
Xanthine·Na	0.000344