

## UAB "LT Biotech"

J.K. 302303586, PVM kodas LT 100004741118,  
Rugiu 21-24, LT-08419, Vilnius Reg. Nr. 127918,  
V.Į. Registrų centras Vilniaus filialas  
Tel/fax +370 5 216 02 27

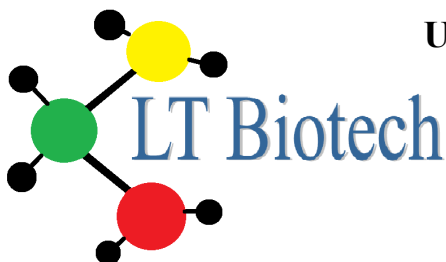
### Medium 199 with Earle's Salts, with L-Glutamine LTLM-B16

#### Product Specifications

CO <sub>2</sub> concentration, optimum	5.0 %
pH	7.0 – 7.5
Osmolality	280 – 340 mOsm/kg
Colour and Appearance	Clear red orange solution
Endotoxin	< 1 EU/ml (< 0.1 ng/ml)
Cell Culture	Tested
Sterility	Tested
Storage	+2°C to +8°C protected from light

#### Formulation

Components	Concentration mg/l	Molecular Weight g/mol	Concentration mM
<b>Amino Acids</b>			
L-Alanine	50.00	89.09	0.56
L-Arginine HCl	70.00	210.66	0.33
L-Aspartic Acid	60.00	133.10	0.45
L-Cysteine HCl H <sub>2</sub> O	0.11	176.00	0.0006
L-Cystine 2HCl	26.00	240.30	0.11
L-Glutamic Acid	133.60	147.13	0.91
L-Glutamine	100.00	146.15	0.68
Glycine	50.00	75.07	0.67
L-Histidine HCl H <sub>2</sub> O	21.88	209.63	0.10
L-Hydroxy-L-Proline	10.00	131.00	0.08
L-Isoleucine	40.00	131.17	0.30
L-Leucine	120.00	131.17	0.91
L-Lysine HCl	70.00	182.65	0.38
L-Methionine	30.00	149.21	0.20
L-Phenylalanine	50.00	165.19	0.30
L-Proline	40.00	115.13	0.35
L-Serine	50.00	105.09	0.48
L-Threonine	60.00	119.12	0.50
L-Tryptophan	20.00	204.23	0.10
L-Tyrosine 2Na 2H <sub>2</sub> O	57.66	225.15	0.26
L-Valine	50.00	117.15	0.43
<b>Vitamins</b>			
Ascorbic Acid	0.056	176.12	3.18E-4
D-Biotin	0.01	244.31	4.09E-5
Choline chloride	0.50	139.62	0.0036
D-Calcium Pantothenate	0.01	476.53	2.10E-5
Folic Acid	0.01	441.40	2.27E-5
Menadione Sodium Bisulfite	0.016	276.24	5.79E-5
myo-Inositol	0.05	180.16	2.78E-4
Nicotinamide	0.025	122.12	2.05E-4



## UAB "LT Biotech"

J.K. 302303586, PVM kodas LT 100004741118,  
Rugių 21-24, LT-08419, Vilnius Reg. Nr. 127918,  
V.Į. Registrų centras Vilniaus filialas  
Tel/fax +370 5 216 02 27

Components	Concentration mg/l	Molecular Weight g/mol	Concentration mM
Nicotinic Acid	0.025	123.11	2.03E-4
Paraaminobenzoic Acid	0.05	137.14	3.65E-4
Pyridoxal HCl	0.025	203.62	1.23E-4
Pyridoxine HCl	0.025	205.64	1.22E-4
Riboflavin	0.01	376.36	2.66E-5
Thiamine HCl	0.01	337.27	2.96E-5
Vitamin A (Acetate)	0.14	328.49	4.26E-4
Vitamin D2 (Ergocalciferol)	0.10	396.65	2.52E-4
(±)- $\alpha$ -Tocopherol Phosphate 2Na	0.01	554.65	1.80E-5
<b>Inorganic Salts</b>			
Calcium Chloride 2H <sub>2</sub> O	265.00	147.01	1.80
Ferric Nitrate 9 H <sub>2</sub> O	0.72	404.00	0.0018
Magnesium Sulfate	97.67	120.37	0.81
Potassium Chloride	400.00	74.55	5.37
Sodium Bicarbonate	1250.00	84.01	17.88
Sodium Chloride	6800.00	58.44	116.36
Sodium Phosphate Monobasic Anhydrous	122.00	119.98	1.02
<b>Other Components</b>			
2-Deoxy-D-Ribose	0.50	134.13	0.004
Adenine Sulfate	10.00	184.17	0.05
Adenosine 5'-Phosphate	0.24	365.24	6.57E-4
Adenosine 5'-Triphosphate 2Na	1.00	551.14	0.002
Cholesterol	0.20	386.65	5.17E-4
D-Glucose	1000.00	180.16	5.55
L-Glutathione (reduced)	0.05	307.32	1.63E-4
Guanine	0.30	151.13	0.002
Hypoxanthine	0.30	136.11	0.002
Phenol Red Sodium Salt	21.3	376.36	0.057
D-Ribose	0.50	150.13	0.003
Sodium Acetate	50.00	82.00	0.61
Thymine	0.30	126.11	0.002
Tween® 80	20.00	-	Infinity
Uracil	0.30	112.09	0.003
Xanthine Na	0.34	174.09	0.002

Tween is a registered trademark of Croda International PLC.

### Precautions and Disclaimer

This product is for research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.