

CORNING

Medium 199

Formulation

Cat. No.	10-060	50-050	50-051	90-050
Description	Liquid, 1x	Powder	Powder	Powder
Units	mg/L	mg/L	mg/L	mg/L
Components				
Inorganic Salts				
CaCl ₂ (anhydrous)	200.00	200.00	140.00	200.00
Fe(NO ₃) ₃ • 9H ₂ O	0.72	0.72	0.72	0.72
KCl	400.00	400.00	400.00	400.00
KH ₂ PO ₄	--	--	60.00	--
MgSO ₄ (anhydrous)	97.70	97.70	97.70	97.70
NaCl	6800.00	6800.00	8000.00	6800.00
NaH ₂ PO ₄ • H ₂ O	140.00	140.00	--	140.00
Na ₂ HPO ₄ (anhydrous)	--	--	47.50	--
NaHCO ₃	2200.00	--	--	--
Amino Acids				
L-Alanine	25.00	25.00	25.00	25.00
L-Arginine • HCl	70.00	70.00	70.00	70.00
L-Aspartic acid	30.00	30.00	30.00	30.00
L-Cysteine • HCl • H ₂ O	0.11	0.11	0.11	0.11
L-Cystine • 2HCl	26.00	26.00	26.00	26.00
L-Glutamic acid	75.00	75.00	75.00	75.00
L-Glutamine	100.00	100.00	100.00	--
Glycine	50.00	50.00	50.00	50.00
L-Histidine • HCl • H ₂ O	21.88	21.88	21.88	21.88
Hydroxy-L-proline	10.00	10.00	10.00	10.00
L-Isoleucine	20.00	20.00	20.00	20.00
L-Leucine	60.00	60.00	60.00	60.00
L-Lysine • HCl	70.00	70.00	70.00	70.00
L-Methionine	15.00	15.00	15.00	15.00
L-Phenylalanine	25.00	25.00	25.00	25.00
L-Proline	40.00	40.00	40.00	40.00
L-Serine	25.00	25.00	25.00	25.00
L-Threonine	30.00	30.00	30.00	30.00
L-Tryptophan	10.00	10.00	10.00	10.00
L-Tyrosine • 2Na • 2H ₂ O	57.87	57.87	57.87	57.87
L-Valine	25.00	25.00	25.00	25.00
Vitamins				
DL-alpha-Tocopherol • PO ₄ • Na	0.01	0.01	0.01	0.01
Ascorbic acid	0.05	0.05	0.05	0.05
Biotin	0.01	0.01	0.01	0.01
Calciferol	0.10	0.10	0.10	0.10
D-Calcium pantothenate	0.01	0.01	0.01	0.01

Components (continued)	(10-060)	(50-050)	(50-051)	(90-050)
Vitamins				
Choline chloride	0.50	0.50	0.50	0.50
Folic acid	0.01	0.01	0.01	0.01
<i>D</i> -Inositol	0.05	0.05	0.05	0.05
Menadione • NaHSO ₄ • 3H ₂ O	0.019	0.019	0.019	0.019
Nicotinic acid	0.025	0.025	0.025	0.025
Nicotinamide	0.025	0.025	0.025	0.025
Para-Aminobenzoic acid	0.05	0.05	0.05	0.05
Pyridoxine • HCl	0.05	0.05	0.05	0.05
Riboflavin	0.01	0.01	0.01	0.01
Thiamine • HCl	0.01	0.01	0.01	0.01
Vitamin A acetate	0.14	0.14	0.14	0.14
Other				
Adenine sulfate	10.00	10.00	10.00	10.00
5-Adenylic acid • H ₂ O	0.20	0.20	0.20	0.20
ATP • 2Na • 3H ₂ O	1.00	1.00	1.00	1.00
Cholesterol	0.20	0.20	0.20	0.20
2-Deoxy-D-ribose	0.50	0.50	0.50	0.50
D-Glucose	1000.00	1000.00	1000.00	1000.00
Glutathione (reduced)	0.05	0.05	0.05	0.05
Guanine • HCl	0.30	0.30	0.30	0.30
Hypoxanthine • Na	0.354	0.354	0.354	0.354
Phenol red • Na	10.00	10.00	10.00	--
D-Ribose	0.50	0.50	0.50	0.50
Sodium acetate	50.00	50.00	50.00	50.00
Thymine	0.30	0.30	0.30	0.30
Polysorbate 80	20.00	20.00	20.00	20.00
Uracil	0.30	0.30	0.30	0.30
Xanthine • Na	0.34	0.34	0.34	0.34
Add				
NaHCO ₃ , Powder (g/L)	--	2.20	0.35	2.20
7.5% Solution (mL/L)	--	29.33	4.67	29.33
L-Glutamine Powder (mg/L)	--	--	--	100.00
200 mM Solution (mL/L)	--	--	--	3.40



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