



MBL02 FORMULATION

MCDB 131 Medium

Without L-Glutamine.

Store at 2° to 8°C.

Components	mg/L
Adenine Hydrochloride, Hydrate ($C_5H_5N_5 \cdot HCl \cdot xH_2O$)	0.17154
Ammonium Metavanadate (NH_4VO_3)	0.00059
Ammonium Molybdate, Tetrahydrate ($(NH_4)_6Mo_7O_{24} \cdot 4H_2O$)	0.00371
Calcium Chloride, Dihydrate ($CaCl_2 \cdot 2H_2O$)	235.23
Choline Chloride ($C_5H_{14}ClNO$)	13.96
Cupric Sulfate, Pentahydrate ($CuSO_4 \cdot 5H_2O$)	0.00125
D-Biotin ($C_{10}H_{16}N_2O_3S$)	0.00733
D-Calcium Pantothenate ($C_8H_{11}CaN_2O_{10}$)	11.91
D-Glucose ($C_6H_{12}O_6$)	1000.00
Ferrous Sulfate, Heptahydrate ($FeSO_4 \cdot 7H_2O$)	0.27800
Folinic Acid Calcium Salt ($C_{20}H_{21}N_7O_7Ca \cdot 5H_2O$)	0.602
Glycine ($C_2H_5NO_2$)	2.25
L-Alanine ($C_3H_7NO_2$)	2.67
L-Arginine, Hydrochloride ($C_6H_{14}N_4O_2 \cdot HCl$)	63.20
L-Asparagine, Monohydrate ($C_4H_8N_2O_3 \cdot H_2O$)	15.01
L-Aspartic Acid ($C_4H_7NO_4$)	13.31
L-Cysteine, Hydrochloride, Monohydrate ($C_3H_7NO_2 \cdot HCl \cdot H_2O$)	35.13
L-Glutamic Acid ($C_5H_9NO_4$)	4.41
L-Histidine, Hydrochloride, Monohydrate ($C_6H_9N_3O_2 \cdot HCl \cdot H_2O$)	41.93
Lipoic Acid (DL-Thioctic Acid) ($C_8H_{14}O_2S_2$)	0.00206
L-Isoleucine ($C_6H_{13}NO_2$)	65.58
L-Leucine ($C_6H_{13}NO_2$)	131.27
L-Lysine, Hydrochloride ($C_6H_{14}N_2O_2 \cdot HCl$)	181.65



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L-Methionine (C ₅ H ₁₁ NO ₂ S)	14.92
L-Phenylalanine (C ₉ H ₁₁ NO ₂)	33.04
L-Proline (C ₅ H ₉ NO ₂)	11.51
L-Serine (C ₃ H ₇ NO ₃)	31.53
L-Threonine (C ₄ H ₉ NO ₃)	11.91
L-Tryptophan (C ₁₁ H ₁₂ N ₂ O ₂)	4.08
L-Tyrosine, Disodium, Dihydrate (C ₉ H ₉ O ₃ Na ₂ · 2H ₂ O)	26.12
L-Valine (C ₅ H ₁₁ NO ₂)	117.15
Magnesium Sulfate, Anhydrous (MgSO ₄)	1,203.26
Manganese Sulfate, Monohydrate (MnSO ₄ · H ₂ O)	0.00015
Myo-Inositol (C ₆ H ₁₂ O ₆)	7.21
Niacinamide/Nicotinamide (C ₆ H ₆ N ₂ O)	6.11
Nickel Chloride, Hexahydrate (NiCl ₂ · 6H ₂ O)	0.00007
Phenol Red Sodium Salt (C ₁₉ H ₁₃ NaO ₅ S)	12.42
Potassium Chloride (KCl)	298.20
Putrescine, Dihydrochloride (C ₄ H ₁₂ N ₂ · 2HCl)	0.00016
Pyridoxine, Hydrochloride (C ₈ H ₁₁ NO ₃ · HCl)	2.056
Pyruvic Acid, Sodium Salt (C ₃ H ₃ NaO ₃)	110.04
Riboflavin (C ₁₇ H ₂₀ N ₄ O ₆)	0.00376
Selenious Acid (H ₂ SeO ₃)	0.00387
Sodium Bicarbonate (NaHCO ₃)	1176.00
Sodium Chloride (NaCl)	6430.00
Sodium Metasilicate (Na ₂ SiO ₃ · 9H ₂ O)	2.842
Sodium Phosphate Dibasic, Anhydrous (Na ₂ HPO ₄)	70.983
Thiamine, Hydrochloride (C ₁₂ H ₁₇ ClN ₄ OS · HCl)	3.373
Thymidine (C ₁₀ H ₁₄ N ₂ O ₅)	0.02422
Vitamin B12 (C ₆₃ H ₈₈ CoN ₁₄ O ₁₄ P)	0.01355
Zinc Sulfate, Heptahydrate (ZnSO ₄ · 7H ₂ O)	0.00029