

### 培养基配方表 (Media Formulation)

名称: MCDB 153 培养基 含酚红、L-谷氨酰胺、丙酮酸钠和 HEPES

货号: L680KJ

组分 (Components)	分子量 (MW)	浓度 (mg/L)	摩尔浓度 (mM)
<b>氨基酸 (Amino Acids)</b>			
L-Alanine	89.09	8.91	0.10001122
L-Arginine Hydrochloride	210.66	210.7	1.00018988
L-Asparagine Monohydrate	150.13	15	0.09991341
L-Aspartic Acid	133.1	3.99	0.02997746
L-Cysteine Hydrochloride Monohydrate	175.63	42.04	0.23936685
L-Glutamic Acid	147.13	14.71	0.09997961
L-Glutamine	146.14	877.2	6.00246339
L-Histidine Monohydrochloride Monohydrate	209.63	16.77	0.07999809
L-Isoleucine	131.17	1.968	0.01500343
L-Leucine	131.17	65.6	0.50011436
L-Lysine Hydrochloride	182.65	18.27	0.10002737
L-Methionine	149.21	4.48	0.03002480
L-Phenylalanine	165.19	4.96	0.03002603
L-Proline	115.13	34.53	0.29992183
L-Serine	105.09	63.06	0.60005709
L-Threonine	119.12	11.91	0.09998321
L-Tryptophan	204.23	3.06	0.01498311
L-Tyrosine Disodium Dihydrate	261.18	3.41	0.01305613
L-Valine	117.15	35.13	0.29987196
Glycine	75.07	7.51	0.10003996
<b>无机盐 (Inorganic Salts)</b>			
Ammonium Metavanadate	116.98	0.000585	0.00000500
Ammonium Molybdate Tetrahydrate	1235.86	0.00124	0.00000100
Calcium Chloride dihydrate	147.01	4.411	0.03000476
Copper Sulfate Pentahydrate	249.69	0.00275	0.00001101
Ferrous Sulfate Heptahydrate	278.01	1.39	0.00499982
Magnesium Chloride Hexahydrate	203.3	122	0.60009838
Magnesium Sulfate	120.37		
Manganese Sulfate Monohydrate	169.02	0.000169	0.00000100
Nickel Chloride Hexahydrate	237.69	0.00012	0.00000050
Potassium Chloride	74.55	111.83	1.50006707
Sodium Bicarbonate	84.01	1176	13.99833353
Sodium Chloride	58.44	7000	119.78097194

Sodium Metasilicate Nonahydrate	284.2	0.142	0.00049965
Sodium Phosphate Dibasic	141.96	284.088	2.00118343
Sodium Selenite	172.94	0.0038	0.00002197
Tin Chloride Dihydrate	225.65	0.000113	0.00000050
Zinc Sulfate Heptahydrate	287.56	0.144	0.00050077
<b>维生素 (Vitamins)</b>			
Biotin	244.31	0.0146	0.00005976
Choline Chloride	139.62	13.96	0.09998568
D-Calcium Pantothenate	238.27	0.238	0.00099887
DL- $\alpha$ -Lipoic Acid	206.33	0.206	0.00099840
Folic Acid	441.4	0.79	0.00178976
Folinic Acid Calcium Hydrate	511.5		
i-Inositol	180.16	18.02	0.10002220
Niacinamide	122.12	0.03663	0.00029995
Pyridoxine Hydrochloride	205.64	0.06171	0.00030009
Riboflavin	376.36	0.0376	0.00009990
Thiamine Hydrochloride	337.27	0.337	0.00099920
VitaminB12 (Cyanocob alamin)	1355.37	0.407	0.00030029
<b>其他组分 (Other Components)</b>			
Adenine Hemisulfate Salt	184.17	30.88	0.16767117
D-(+)-Glucose	180.16	1081	6.00022202
HEPES	238.3	6600	27.69618128
Phenol Red Sodium Salt	376.4	1.242	0.00329968
Putrescine Dihydrochloride	161.07	0.161	0.00099957
Sodium Acetate	82.03	301.53	3.67585030
Sodium Pyruvate	110.04	55	0.49981825
Thymidine	242.23	0.727	0.00300128