

## 培养基配方表 (Media Formulation)

名称: Williams 培养基 E 含甘氨酸和丙酮酸钠, 不含酚红、L-谷氨酰胺和 HEPES

货号: L660KJ

组分 (Components)	分子量 (MW)	浓度 (mg/L)	摩尔浓度 (mM)
<b>氨基酸 (Amino Acids)</b>			
Glycine	75.07	50	0.666045
L-Alanine	89.09	90	1.0102144
L-Arginine	174.2	50	0.2870264
L-Asparagine monohydrate	150.13	20	0.1332179
L-Aspartic acid	133.1	30	0.2253944
L-Cysteine hydrochloride monohydrate	175.63	58.23	0.3315493
L-Cystine dihydrochloride	313.22	26.07	0.0832322
L-Glutamic Acid	147.13	50	0.3398355
L-Histidine	155.15	15	0.0966806
L-Isoleucine	131.17	50	0.3811847
L-Leucine	131.17	75	0.5717771
L-Lysine hydrochloride	182.65	87.46	0.4788393
L-Methionine	149.21	15	0.1005295
L-Phenylalanine	165.19	25	0.1513409
L-Proline	115.13	30	0.260575
L-Serine	105.09	10	0.0951565
L-Threonine	119.12	40	0.3357958
L-Tryptophan	204.23	10	0.0489644
L-Tyrosine disodium salt dihydrate	261.18	50.65	0.1939276
L-Valine	117.15	50	0.4268032
<b>无机盐 (Inorganic Salts)</b>			
Calcium Chloride	110.98	200	1.8021265
Copper Sulfate pentahydrate	249.69	0.0001	0.0000004
Ferrous Sulfate heptahydrate	278.01	0.0001	0.0000004
Magnesium Sulfate	120.37	97.67	0.8114148
Manganese Sulfate monohydrate	169.02	0.0001	0.0000006
Potassium Chloride	74.55	400	5.3655265
Sodium Bicarbonate	84.01	2200	26.1873586
Sodium Chloride	58.44	6800	116.3586585
Sodium Phosphate monobasic hydrate	137.99	140	1.0145663
Zinc Sulfate heptahydrate	287.56	0.0002	0.0000007
<b>维生素 (Vitamins)</b>			
Ascorbic Acid	176.12	2	0.0113559
Biotin	244.31	0.5	0.0020466

Choline chloride	139.62	1.5	0.0107434
D-Calcium pantothenate	238.27	1	0.0041969
Ergocalciferol	396.65	0.1	0.0002521
Folic Acid	441.4	1	0.0022655
Menadione	172.18	0.00624	0.0000362
Niacinamide	122.12	1	0.0081887
Pyridoxal hydrochloride	203.62	1	0.0049111
Riboflavin	376.36	0.1	0.0002657
Thiamine hydrochloride	337.27	1	0.002965
Retinol Acetate	328.49	0.1	0.0003044
Vitamin B12	1355.37	0.2	0.0001476
$\alpha$ -Tocopheryl phosphate disodium	554.65	0.01	0.000018
i-Inositol	180.16	2	0.0111012
<b>其他成分 (Other Components)</b>			
D-(+)-Glucose	180.16	2000	11.1012433
Glutathione (reduced)	307.32	0.05	0.0001627
Linoleic Acid	280.45	0.02852	0.0001017
Sodium Pyruvate	110.04	25	0.2271901