

RPMI 1640 培养基(ATCC 改良型) 含 4.5 g/L D-葡萄糖

产品编号: PWL047 规格: 500 ml

产品内容

| 产品组成 | PWL047 |
|---|--------|
| RPMI 1640 培养基(ATCC 改良型) 含 4.5 g/L D-葡萄糖 | 500 ml |
| 说明书 | 1 份 |

产品简介

RPMI 1640培养基以研发地点罗斯韦尔公园纪念研究所 (Roswell Park Memorial Institute. RPMI) 命名, 1640为培养基代号。它是McCoy's 5A培养基的改进型, 使用碳酸氢盐缓冲系统。RPMI 1640培养基最初开发用于人白血病细胞的悬浮或单层培养, 后来被发现也适用于多种哺乳动物细胞, 包括HeLa、Jurkat、MCF-7、PC-12、PBMC、星形胶质细胞和癌细胞。

RPMI 1640培养基与其它培养基的区别在于含有还原型谷胱甘肽和高浓度的维生素。RPMI 1640培养基含有EMEM和DMEM中没有的生物素、维生素B12和对氨基苯甲酸, 以及高浓度的氯化胆碱和肌醇。

RPMI 1640培养基(ATCC改良型)是在常规RPMI 1640基础上, 额外添加了丙酮酸钠和HEPES, 增加了葡萄糖的含量, 降低了碳酸氢钠的含量。

本产品含有: D-葡萄糖 (4.5g/L)、酚红、L-谷氨酰胺、丙酮酸钠、HEPES。

保存条件

2-8℃避光保存, 一年有效。

| Components | Molecular Weight | Concentration (mg/L) | mM |
|--|------------------|----------------------|--------------|
| Amino Acids | | | |
| Glycine | 75.0 | 10.0 | 0.13333334 |
| L-Arginine | 174.0 | 200.0 | 1.1494253 |
| L-Asparagine | 132.0 | 50.0 | 0.37878788 |
| L-Aspartic acid | 133.0 | 20.0 | 0.15037593 |
| L-Cystine 2HCl | 313.0 | 65.0 | 0.20766774 |
| L-Glutamic Acid | 147.0 | 20.0 | 0.13605443 |
| L-Glutamine | 146.0 | 300.0 | 2.0547945 |
| L-Histidine | 155.0 | 15.0 | 0.09677419 |
| L-Hydroxyproline | 131.0 | 20.0 | 0.15267175 |
| L-Isoleucine | 131.0 | 50.0 | 0.3816794 |
| L-Leucine | 131.0 | 50.0 | 0.3816794 |
| L-Lysine hydrochloride | 183.0 | 40.0 | 0.21857923 |
| L-Methionine | 149.0 | 15.0 | 0.10067114 |
| L-Phenylalanine | 165.0 | 15.0 | 0.09090909 |
| L-Proline | 115.0 | 20.0 | 0.17391305 |
| L-Serine | 105.0 | 30.0 | 0.2857143 |
| L-Threonine | 119.0 | 20.0 | 0.16806723 |
| L-Tryptophan | 204.0 | 5.0 | 0.024509804 |
| L-Tyrosine disodium salt dihydrate | 261.0 | 29.0 | 0.11111111 |
| L-Valine | 117.0 | 20.0 | 0.17094018 |
| Vitamins | | | |
| Biotin | 244.0 | 0.2 | 8.1967213E-4 |
| Choline chloride | 140.0 | 3.0 | 0.021428572 |
| D-Calcium pantothenate | 477.0 | 0.25 | 5.24109E-4 |
| Folic Acid | 441.0 | 1.0 | 0.0022675737 |
| Niacinamide | 122.0 | 1.0 | 0.008196721 |
| Para-Aminobenzoic Acid | 137.0 | 1.0 | 0.00729927 |
| Pyridoxine hydrochloride | 206.0 | 1.0 | 0.004854369 |
| Riboflavin | 376.0 | 0.2 | 5.319149E-4 |
| Thiamine hydrochloride | 337.0 | 1.0 | 0.002967359 |
| Vitamin B12 | 1355.0 | 0.005 | 3.690037E-6 |
| i-Inositol | 180.0 | 35.0 | 0.19444445 |
| Inorganic Salts | | | |
| Calcium nitrate (Ca(NO ₃) ₂ 4H ₂ O) | 236.0 | 100.0 | 0.42372882 |
| Magnesium Sulfate (MgSO ₄) (anhyd.) | 120.0 | 48.84 | 0.407 |
| Potassium Chloride (KCl) | 75.0 | 400.0 | 5.3333335 |
| Sodium Bicarbonate (NaHCO ₃) | 84.0 | 1500.0 | 17.857143 |
| Sodium Chloride (NaCl) | 58.0 | 6000.0 | 103.44827 |
| Sodium Phosphate dibasic (Na ₂ HPO ₄ •7H ₂ O) | 268.0 | 800.0 | 2.9843 |
| Other Components | | | |
| D-Glucose (Dextrose) | 180.0 | 4500.0 | 25.0 |
| Glutathione (reduced) | 307.0 | 1.0 | 0.0032573289 |
| HEPES | 238.0 | 2383.0 | 10.012605 |
| Phenol Red | 376.4 | 5.0 | 0.013283741 |
| Sodium Pyruvate | 110.0 | 110.0 | 1.0 |