

## Iscove's Modification of DMEM (IMDM) *Cell Culture Medium*

**产品编号:** CM10016

**产品简介:** Iscove 等人的研究表明红细胞和巨噬细胞的前体细胞 (precursor cell) 能够在完全无血清的培养基中生长, 该培养基需要辅以 albumin, transferrin, lecithin 以及 selenium。IMDM 是在 DMEM 的基础上进行了改进, 加入 selenium, 氨基酸和维生素, sodium pyruvate, HEPES, 以及 potassium nitrate 取代 DMEM 中的 ferric nitrate。进一步研究表明 IMEM 支持鼠 B 淋巴细胞、骨髓中的造血组织 (hemopoietic tissue)、lipopolysaccharide 刺激的 B 细胞、T 淋巴细胞及多种杂交瘤细胞等的生长。该产品使用 HEPES 缓冲体系, 含有 L-glutamine, alpha-thioglycerol 和 beta-mercaptoethanol。

**产品类型:** 无菌过滤即用型液体培养基

**包装规格:** 500 mL

**储存条件:** 4-8°C

**渗透压:** 285±20 mOsm

**酸碱度:** 7.2±0.2

**参考文献:**

1. Iscove, N.N and Melchers, F. (1978). Complete Replacement of Serum by Albumin, Transferrin, and Soybean Lipid in Cultures of Lipopolysaccharide-Reactive B Lymphocytes. J. Exp. Medicine. 147, 923-933.
2. Iscove, N.N., Guilbert, L.J. and Weyman, C. (1980). Complete Replacement of Serum in Primary Cultures of Erythropoietin Dependent Red Cell Precursors [CFU-E] by Albumin, Transferrin, Iron, Unsaturated Fatty Acid, Lecithin and Cholesterol. Exp. Cell Research. 126, 121-126.



Catalogue Number	CM15016	CM011	CM10016
<b>Inorganic Salts</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>
CaCl <sub>2</sub> (anhydrous)	165.00	165.00	165.00
KCl	330.00	330.00	330.00
KNO <sub>3</sub>	0.076	0.076	0.076
MgSO <sub>4</sub> (anhydrous)	97.70	97.70	97.70
Na <sub>2</sub> SeO <sub>3</sub>	0.0173	0.0173	0.0173
NaCl	4505.00	4505.00	4505.00
NaH <sub>2</sub> PO <sub>4</sub> •H <sub>2</sub> O	125.00	125.00	125.00
NaHCO <sub>3</sub>	3024.00	3024.00	3024.00
<b>Amino Acids</b>			
L-Alanine	25.00	25.00	25.00
L-Arginine•HCl	84.00	84.00	84.00
L-Asparagine•H <sub>2</sub> O	28.40	28.40	28.40
L-Aspartic acid	30.00	30.00	30.00
L-Cystine•2HCl	91.24	91.24	91.24
L-Glutamic acid	75.00	75.00	75.00
L-Glutamine			584.00
Glycine	30.00	30.00	30.00
L-Histidine•HCl•H <sub>2</sub> O	42.00	42.00	42.00
L-Isoleucine	105.00	105.00	105.00
L-Leucine	105.00	105.00	105.00
L-Lysine•HCl	146.00	146.00	146.00
L-Methionine	30.00	30.00	30.00
L-Phenylalanine	66.00	66.00	66.00
L-Proline	40.00	40.00	40.00
L-Serine	42.00	42.00	42.00
L-Threonine	95.00	95.00	95.00
L-Tryptophan	16.00	16.00	16.00
L-Tyrosine•2Na•2H <sub>2</sub> O	103.79	103.79	103.79
L-Valine	94.00	94.00	94.00
<b>Vitamins</b>			
Biotin	0.013	0.013	0.013
D-Calcium pantothenate	4.00	4.00	4.00
Choline chloride	4.00	4.00	4.00
Folic acid	4.00	4.00	4.00
i-Inositol	7.20	7.20	7.20
Nicotinamide	4.00	4.00	4.00
Pyridoxine•HCl	4.00	4.00	4.00
Riboflavin	0.40	0.40	0.40
Thiamine•HCl	4.00	4.00	4.00
Vitamin B12	0.013	0.013	0.013
<b>Other</b>			
D-Glucose	4500.00	4500.00	4500.00
HEPES	5958.00	5958.00	5958.00
Phenol red, Na	15.00		15.00
Sodium pyruvate	110.00	110.00	110.00

FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC AND THERAPEUTIC PROCEDURES



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