

**DMEM-Ham's F12**  
*Cell Culture Medium*

**产品编号:** CM16405

**产品简介:** DMEM-Ham's F12 为研究人员开发用于无血清细胞培养之需。取代培养基中的血清添加，该培养基添加有混合营养成分，生长因子和激素。Mather 和 Sato 曾报道添加有胰岛素 (insulin)，转铁蛋白 (transferrin)，(表皮生长因子 (epidermal growth factor)，促黄体素 (luteinizing hormone, LH) 或者促卵泡素 (follicle stimulating hormone, FSH)，类胰岛素生长因子 (somatomedin) 和生长激素的无血清培养基成功培养了 Leydig 细胞和 Sertoli 细胞。尽管针对不同的细胞使用激素的含量不同，1:1 比例混合的 Dulbecco's Modified Eagle's Medium (DME) 和 Ham's F-12 对多数细胞比较适宜。15mM 的 HEPES 常用来为该培养基提供酸碱缓冲体系，补偿无血清添加造成的培养基缓冲能力不足。

本产品含有 L-glutamine，不含酚红和 HEPES。

**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:** 300±20 mOsm

**酸碱度:** 7.2±0.2

**参考文献:** Barnes D and Sato G (1980). Methods for Growth of Cultured Cells in Serum-Free Medium. Analytical Biochemistry. 102, 255-270.



## DMEM-Ham's F12

Catalog No.	CM10090	CM10092	CM15090	CM16405
Inorganic Salts	mg/L	mg/L	mg/L	mg/L
CaCl <sub>2</sub> (anhydrous)	116.65	116.65	116.65	116.65
CuSO <sub>4</sub> (anhydrous)	0.0008	0.0008	0.0008	0.0008
Fe(NO <sub>3</sub> ) <sub>3</sub> •9H <sub>2</sub> O	0.05	0.05	0.05	0.05
FeSO <sub>4</sub> •7H <sub>2</sub> O	0.417	0.417	0.417	0.417
KCl	311.8	311.8	311.8	311.8
MgSO <sub>4</sub> (anhydrous)	84.95	84.95	84.95	84.95
NaCl	7000	7000	7000	7000
NaH <sub>2</sub> PO <sub>4</sub> •H <sub>2</sub> O	62.5	62.5	62.5	62.5
Na <sub>2</sub> HPO <sub>4</sub> (anhydrous)	71	71	71	71
NaHCO <sub>3</sub>	2438	2438	2438	2438
ZnSO <sub>4</sub> •7H <sub>2</sub> O	0.4315	0.4315	0.4315	0.4315
<b>Amino Acids</b>				
L-Alanine	4.45	4.45	4.45	4.45
L-Arginine•HCl	147.5	147.5	147.5	147.5
L-Asparagine•H <sub>2</sub> O	7.5	7.5	7.5	7.5
L-Aspartic acid	6.65	6.65	6.65	6.65
L-Cysteine•HCl•H <sub>2</sub> O	17.56	17.56	17.56	17.56
L-Cystine•2HCl	31.285	31.285	31.285	31.285
L-Glutamic acid	7.35	7.35	7.35	7.35
L-Glutamine	365.1	365.1	365.1	365.1
Glycine	18.75	18.75	18.75	18.75
L-Histidine•HCl•H <sub>2</sub> O	31.48	31.48	31.48	31.48
L-Isoleucine	54.37	54.37	54.37	54.37
L-Leucine	58.95	58.95	58.95	58.95
L-Lysine•HCl	91.35	91.35	91.35	91.35
L-Methionine	17.24	17.24	17.24	17.24
L-Phenylalanine	35.48	35.48	35.48	35.48
L-Proline	17.25	17.25	17.25	17.25
L-Serine	26.25	26.25	26.25	26.25
L-Threonine	53.55	53.55	53.55	53.55
L-Tryptophan	9.02	9.02	9.02	9.02
L-Tyrosine•2Na•2H <sub>2</sub> O	55.815	55.815	55.815	55.815
L-Valine	52.85	52.85	52.85	52.85
<b>Vitamins</b>				
Biotin	0.00365	0.00365	0.00365	0.00365
D-Calcium pantothenate	2.24	2.24	2.24	2.24
Choline chloride	8.98	8.98	8.98	8.98
Folic acid	2.65	2.65	2.65	2.65
i-Inositol	12.61	12.61	12.61	12.61
Nicotinamide	2.0185	2.0185	2.0185	2.0185
Pyridoxine•HCl	2.031	2.031	2.031	2.031
Riboflavin	0.219	0.219	0.219	0.219
Thiamine•HCl	2.17	2.17	2.17	2.17
Vitamin B12	0.68	0.68	0.68	0.68
<b>Other</b>				
D-Glucose	3151	3151	3151	3151
HEPES		3574.8		
Hypoxanthine, Na	2.385	2.385	2.385	2.385
Lipoic acid	0.105	0.105	0.105	0.105
Methyl lineoleate	0.044	0.044	0.044	0.044
Phenol red, Na	8.1	8.1	8.1	
Putrescine•2HCl	0.08	0.08	0.08	0.08
Sodium pyruvate	110	110	110	110
Thymidine	0.365	0.365	0.365	0.365

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



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