

DMEM/F-12 with 15 mM HEPES

Cell Culture Medium

Catalog # 36254 500 mL



Scientists Helping Scientists™ | WWW.STEMCELL.COM

TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE

FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

Product Description

Selection of a suitable nutrient medium is dependent on the cell type, culture conditions, and degree of chemical definition required for the cell culture application.

Dulbecco's Modified Eagle's Medium (DMEM)/F-12 with 15 mM HEPES contains D-glucose, L-glutamine, HEPES buffer, and sodium pyruvate, and is supplemented with sodium bicarbonate.

See Formulation on page 2 for a full list of components.

Properties

Storage: Store at 2 - 8°C.
Shelf Life: Stable for 12 months from date of manufacture (MFG) on label.
Contains: DMEM/F-12 with 15 mM HEPES

Handling / Directions For Use

This product contains the labile amino acid L-glutamine which has a half-life of approximately 1 month when stored at 2 - 8°C. For certain cell culture applications, medium stored for greater than 2 months following the date of manufacture should be supplemented with additional L-glutamine. Add 5 mL of 200 mM L-Glutamine (Catalog #07100) to 500 mL of DMEM/F-12 with 15 mM HEPES to achieve a final concentration of 2 mM.

NOTE: This product does not contain antibiotics. If desired, add antibiotics and use within 1 week.

STEMCELL TECHNOLOGIES INC.'S QUALITY MANAGEMENT SYSTEM IS CERTIFIED TO ISO 13485 MEDICAL DEVICE STANDARDS.

Copyright © 2015 by STEMCELL Technologies Inc. All rights reserved including graphics and images. STEMCELL Technologies & Design, STEMCELL Shield Design, and Scientists Helping Scientists are trademarks of STEMCELL Technologies Inc. While STEMCELL has made all reasonable efforts to ensure that the information provided by STEMCELL and its suppliers is correct, it makes no warranties or representations as to the accuracy or completeness of such information.

Formulation

INORGANIC SALTS	mg/L
CaCl ₂ (anhydrous)	116.61
CuSO ₄ •5H ₂ O	0.0013
Fe(NO ₃)•9H ₂ O	0.05
FeSO ₄ •7H ₂ O	0.417
KCl	311.8
MgCl ₂ (anhydrous)	28.61
MgSO ₄ (anhydrous)	48.84
NaCl	6999.5
NaH ₂ PO ₄ (anhydrous)	71.02
NaH ₂ PO ₄ •H ₂ O	62.5
ZnSO ₄ •7H ₂ O	0.43
AMINO ACIDS	mg/L
L-Alanine	4.45
L-Arginine•HCl	147.5
L-Asparagine•H ₂ O	7.501
L-Aspartic Acid	6.65
L-Cysteine•HCl•H ₂ O	17.56
L-Cystine•2HCl	31.29
L-Glutamic Acid	7.35
L-Glutamine	365
Glycine	18.75
L-Histidine•HCl•H ₂ O	31.48
L-Isoleucine	54.47
L-Leucine	59.05
L-Lysine•HCl	91.26
L-Methionine	17.24
L-Phenylalanine	35.48
L-Proline	17.25
L-Serine	26.25
L-Threonine	53.45
L-Tryptophan	9.02
L-Tyrosine 2Na•2H ₂ O	55.79
L-Valine	52.85
VITAMINS	mg/L
D-Biotin	0.0036
D-Ca Pantothenate	2.24
Choline Chloride	8.98
Folic Acid	2.65
Myo-Inositol	12.6
Niacinamide	2.02
Pyridoxine•HCl	2.03
Riboflavin	0.22
Thiamine•HCl	2.17
Vitamin B-12	0.68
OTHER	mg/L
D-Glucose	3151
HEPES	3575
Hypoxanthine•2Na	2.7
Linoleic Acid	0.04
DL-alpha Lipoic Acid	0.105
Phenol Red•Na	8.6
Putrescine•2HCl	0.08
Sodium Pyruvate	55
Thymidine	0.37