

Product Specification Sheet



Product Code : CUL-5100

Identifier : DMEM/Ham's F-12 with L-Gln, Sodium Pyruvate and HEPES, without Phenol Red, liquid

Grade : Cell Culture Media

Appearance : Clear liquid

Molecular Formula : Not Applicable

Molecular Weight : Not Applicable

Product Description : Refer to next page for complete formulation. Sterilized by 0.2µm membrane filtration.

Storage Condition : Store between 2°C - 8°C, away from light.

<u>Assay:</u>	<u>Specification:</u>
Appearance	Clear liquid
pH (neat, 25°C)	7.00 - 7.50
Endotoxin activity	< 0.2 EU/ml
Microbial Activity Test (5 days)	PASS
Osmolality (mOsm/kg)	280 - 320
Mycoplasma	PASS

Designed by:	Amir Salman (Lab Officer)	
Checked by:	Shirley Ng (Quality Analyst)	
Date:	09 July 2024	

Axil Scientific Pte Ltd

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Components	Concentration (mg/L)
Amino Acids	
L-Alanine	4.45
L-Arginine · HCl	147.50
L-Asparagine · H ₂ O	7.50
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	365.00
Glycine	18.75
L-Histidine · HCl · H ₂ O	31.48
L-Isoleucine	54.47
L-Leucine	59.05
L-Lysine · HCl	91.25
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	
D-Biotin	0.0035
Choline Chloride	8.98
Folic Acid	2.66
myo -Inositol (i-inositol)	12.60
Niacinamide	2.02
D-Pantothenic Acid Calcium Salt	2.24
Pyridoxine · HCl	2.03
Vitamin B ₁ · HCl	2.17
Vitamin B ₂	0.22
Vitamin B ₁₂	0.68
Inorganic Salts	
Calcium Chloride · 2H ₂ O	154.52
Copper(II) Sulfate · 5H ₂ O	0.0013
Iron(III) Nitrate · 9H ₂ O	0.05
Iron(II) Sulfate · 7H ₂ O	0.42
Magnesium Chloride · 6H ₂ O	61.20
Magnesium Sulfate	48.84
Potassium Chloride	311.80
Sodium Chloride	6996.00

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Sodium Dihydrogenphosphate	54.30
Sodium Hydrogen Carbonate	1200.00
di-Sodium Hydrogenphosphate	71.02
Zinc Sulfate · 7H ₂ O	0.43
Other Components	
D-Glucose	3151.00
HEPES	3574.50
Hypoxanthine	2.10
Linoleic Acid	0.042
Lipoic Acid	0.11
Putrescine · 2HCl	0.081
Sodium Pyruvate	55.00
Thymidine	0.37

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