



Document ID:	TDS-MCP-004-50L	Version:	004
Date of Issue:	29-APR-2021	Approved by:	Anna Becker
Review Date:	10-JAN-2022	Signature:	
Title:	TECHNICAL DATA SHEET		

Product Name	Dulbecco's Modified Eagle's Medium (DMEM)
Filtration/Treatment	With high Glucose, L-Glutamine and without Sodium Pyruvate
Product Codes	MCP-004-50L
Shelf Life	4 years
Storage Temperature	2 to 8 °C
Shipping Temperature	ambient
Substance	Concentration (mg/L)
Amino Acids	
Glycine	30.00
L-Arginine, Hydrochloride	84.00
L-Cystine, Dihydrochloride	63.00
L-Glutamine	584.00
L-Histidine, Hydrochloride, Monohydrate	42.00
L-Isoleucine	105.00
L-Leucine	105.00
L-Lysine, Hydrochloride	146.00
L-Methionine	30.00
L-Phenylalanine	66.00
L-Serine	42.00
L-Threonine	95.00
L-Tryptophan	16.00
L-Tyrosine, Disodium, Dihydrate	104.00
L-Valine	94.00
Vitamins	
Choline Chloride	4.00
D-Calcium Pantothenate	4.00
Folic Acid	4.00
Myo-Inositol	7.20
Niacinamide	4.00
Pyridoxine, Hydrochloride	4.00
Riboflavin	0.40
Thiamine, Hydrochloride	4.00
Other Components	
D-Glucose, Anhydrous	4500.00
Phenol Red, Sodium Salt	15.00

SPECIMEN



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Inorganic Salts	Concentration (mg/L)
Calcium Chloride, Anhydrous	200.00
Ferric Nitrate, Nonahydrate	0.10
Magnesium Sulfate, Anhydrous	97.67
Potassium Chloride	400.00
Sodium Chloride	6400.00
Sodium Phosphate, Monobasic, Monohydrate	125.00
Specifications	
Appearance	Off-white to orange powder
Solubility	13.38 g/L in ≤ 30 minutes
Moisture Content	≤ 2.0 %
Particle Size (100 mesh)	≥ 90%
pH without NaHCO ₃	5.6 - 7.2
pH with NaHCO ₃	Record
Osmolality without NaHCO ₃	245-285 mM/kg
Osmolality with NaHCO ₃	Record
Endotoxin	≤ 1.0 EU/ml
Mycoplasma	Not detected
Cell Culture – Cell Growth Promotion	3 Passages
Viability	≥ 75%

Note: Sodium Bicarbonate is not included in the powdered media (3700.00 mg/L).

THIS PRODUCT IS FOR LABORATORY USE ONLY.



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