



ISO 13485:2016 Certified | GMP Certified

2235 Cornell Ave. Montgomery, IL 60538 | (800) 246 - 4088 | CustomerService@Biologos.com | Biologos.com

SPECIFICATION SHEET

PRODUCT: Dulbecco's Modified Eagle Medium (1X)
With Low Glucose & Sodium Pyruvate, Without L-Glutamine & Phenol Red

Catalog Number: LDL0010

MEDIA FORMULATION

LDL0010

DMEM (1X) with Low Glucose & Sodium Pyruvate
Without L-Glutamine & Phenol Red

<u>Components</u>	<u>mg/L</u>
Calcium Chloride, Anhydrous (CaCl ₂)	200.0000
Choline Chloride (C ₅ H ₁₄ ONCl)	4.0000
D-Calcium Pantothenate (C ₁₈ H ₃₂ CaN ₂ O ₁₀)	4.0000
D-Glucose, Anhydrous (C ₆ H ₁₂ O ₆)	1000.0000
Ferric Nitrate, Nonahydrate (Fe(NO ₃) ₃ ·9H ₂ O)	0.1000
Folic Acid (C ₁₉ H ₁₉ N ₇ O ₆)	4.0000
Glycine (C ₂ H ₅ NO ₂)	30.0000
L-Arginine, Hydrochloride (C ₆ H ₁₄ N ₄ O ₂ · HCl)	84.0000
L-Cystine, Dihydrochloride (C ₆ H ₁₂ N ₂ O ₄ S ₂ · 2HCl)	63.0000
L-Glutamine (C ₅ H ₁₀ N ₂ O ₃)	0.0000
L-Histidine, Hydrochloride, Monohydrate (C ₆ H ₉ N ₃ O ₂ · HCl · H ₂ O)	42.0000
L-Isoleucine (C ₆ H ₁₃ NO ₂)	105.0000
L-Leucine (C ₆ H ₁₃ NO ₂)	105.0000
L-Lysine, Hydrochloride (C ₆ H ₁₄ N ₂ O ₂ · HCl)	146.0000
L-Methionine (C ₅ H ₁₁ NO ₂ S)	30.0000
L-Phenylalanine (C ₉ H ₁₁ NO ₂)	66.0000
L-Serine (C ₃ H ₇ NO ₃)	42.0000
L-Threonine (C ₄ H ₉ NO ₃)	95.0000
L-Tryptophan (C ₁₁ H ₁₂ N ₂ O ₂)	16.0000
L-Tyrosine, Disodium, Dihydrate (C ₉ H ₉ NO ₃ Na ₂ ·2H ₂ O)	104.0000
L-Valine (C ₅ H ₁₁ NO ₂)	94.0000
Magnesium Sulfate, Anhydrous (MgSO ₄)	97.6700
Myo-Inositol (C ₆ H ₁₂ O ₆)	7.2000
Niacinamide (C ₆ H ₆ N ₂ O)	4.0000
Phenol Red, Sodium Salt (C ₁₉ H ₁₃ NaO ₅ S)	0.0000
Potassium Chloride (KCl)	400.0000
Pyridoxine, Hydrochloride (C ₈ H ₁₁ NO ₃ · HCl)	4.0000
Pyruvic Acid, Sodium Salt (C ₃ H ₃ NaO ₃)	110.0000



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MEDIA FORMULATION (Continued)

LDL0010

DMEM (1X) with Low Glucose & Sodium Pyruvate
Without L-Glutamine & Phenol Red

<u>Components</u>	<u>mg/L</u>
Riboflavin (C ₁₇ H ₂₀ N ₄ O ₆)	0.4000
Sodium Bicarbonate (NaHCO ₃)	3700.0000
Sodium Chloride (NaCl)	6400.0000
Sodium Phosphate, Monobasic, Monohydrate (NaH ₂ PO ₄ · H ₂ O)	125.0000
Thiamine, Hydrochloride (C ₁₂ H ₁₇ ClN ₄ OS · HCl)	4.0000

ASSAY:

SPECIFICATION

Appearance	Clear, yellow solution
pH	7.0 - 7.4
Osmolality	Measure and Record
Endotoxin	Measure and Record
Sterility per 9 CFR 113.26	
Fungal	NEGATIVE
Bacterial	NEGATIVE

Minimum Recommended Expiration Date: [2 years from date of mfg.]

Storage 2° - 8°C

Approved by:

2/15/2018

Quality and Compliance Manager