

Dulbecco's Modified Eagle Medium

Description

Intrinsically developed for the cultivation of murine embryonic cells, DMEM is tailor-made for the cultivation of a broad range of cells, especially if the medium is supplemented with FBS. DMEM is an Eagle medium modification with a four-fold content of amino acids and vitamins. DMEM with 1.0 g/L Glucose is the standard medium, whereas DMEM with 4.5 g/L Glucose is for cells which have a high energy demand.

Liquid Media without Glucose

DMEM without Glucose⁽¹⁾
without L-Glutamine
without Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-01548S1

DMEM without Glucose⁽¹⁾
without L-Glutamine
with Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-01549

DMEM without Glucose⁽¹⁾
with L-Glutamine
with Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-01551

DMEM without Glucose⁽¹⁾
without L-Glutamine
without Sodium pyruvate
without Phenol red
with 3.7 g/L NaHCO₃ 500 ml P04-01548

Powder Media

DMEM without Glucose⁽¹⁾
without L-Glutamine
without Sodium pyruvate
without Phenol red 10 L P03-0010
without NaHCO₃ 50 L P03-0050

Liquid Media with 1.0 g/L Glucose

DMEM with 1.0 g/L Glucose⁽¹⁾
without L-Glutamine
with Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-01500

DMEM with 1.0 g/L Glucose⁽¹⁾
with L-Glutamine
with Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-01550

DMEM with 1.0 g/L Glucose⁽¹⁾
with stab. Glutamine
with Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-02500

DMEM with 1.0 g/L Glucose⁽¹⁾
without L-Glutamine
without Sodium pyruvate
without Phenol red
with 3.7 g/L NaHCO₃ 500 ml P04-03556

DMEM with 1.0 g/L Glucose⁽¹⁾
without L-Glutamine
with Sodium pyruvate
without Phenol red
with 3.7 g/L NaHCO₃ 500 ml P04-01159

DMEM with 1.0 g/L Glucose⁽¹⁾
with L-Glutamine
with Sodium pyruvate
without Phenol red
with 3.7 g/L NaHCO₃ 500 ml P04-01515

DMEM with 1.0 g/L Glucose⁽¹⁾
with stab. Glutamine
with Sodium pyruvate
without Phenol red
with 3.7 g/L NaHCO₃ 500 ml P04-02500S1

DMEM with 1.0 g/L Glucose⁽¹⁾
with L-Glutamine
with Sodium pyruvate
without Phenol red
with 3.7 g/L NaHCO₃ 500 ml P04-01516

DMEM with 1.0 g/L Glucose⁽¹⁾
with L-Glutamine
with Sodium pyruvate
with 25 mM Hepes
with 3.7 g/L NaHCO₃ 500 ml P04-05551

DMEM with 1.0 g/L Glucose⁽¹⁾
with L-Glutamine
without Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-01555

(1) usually on stock, (2) minimum order 10 l, (3) available on request

Dulbecco's Modified Eagle Medium

Special Media with 1.0 g/L Glucose

DMEM with 1.0 g/L Glucose⁽²⁾
without L-Glutamine
with Sodium pyruvate
without Calcium
with 3.7 g/L NaHCO₃ 500 ml P04-01501

SILAC-DMEM⁽²⁾
with 1.0 g/L Glucose
with stab. Glutamine
with Sodium pyruvate
without L-Arginin
without L-Lysin
with 3.7 g/L NaHCO₃ 500 ml P04-02501

Powder Media

DMEM with 1.0 g/L Glucose⁽¹⁾
with L-Glutamine
with Sodium pyruvate 10 L P03-0510
with 3.7 g/L NaHCO₃ 50 L P03-0550

DMEM with 1.0 g/L Glucose⁽¹⁾
with L-Glutamine
with Sodium pyruvate
without Phenol red 10 L P03-01510
with 3.7 g/L NaHCO₃ 50 L P03-01550

Liquid Media with 4.5 g/L Glucose

DMEM with 4.5 g/L Glucose⁽¹⁾
without L-Glutamine
without Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-03500

DMEM with 4.5 g/L Glucose⁽¹⁾
without L-Glutamine
with Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-03600

DMEM with 4.5 g/L Glucose⁽¹⁾
with L-Glutamine
without Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-03550

DMEM with 4.5 g/L Glucose⁽¹⁾
with L-Glutamine
with Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-03590

DMEM with 4.5 g/L Glucose⁽¹⁾
with stab. Glutamine
without Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-04500

DMEM with 4.5 g/L Glucose⁽¹⁾
with stab. Glutamine
with Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-04510

DMEM with 4.5 g/L Glucose⁽¹⁾
without L-Glutamine
without Sodium pyruvate
without Phenol red
with 3.7 g/L NaHCO₃ 500 ml P04-01161

DMEM with 4.5 g/L Glucose⁽¹⁾
without Glutamine
with Sodium pyruvate
without Phenol red
with 3.7 g/L NaHCO₃ 500 ml P04-01158

DMEM with 4.5 g/L Glucose⁽¹⁾
with L-Glutamine
with Sodium pyruvate
without Phenol red
with 3.7 g/L NaHCO₃ 500 ml P04-03591

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Dulbecco's Modified Eagle Medium

DMEM with 4.5 g/L Glucose⁽¹⁾
with L-Glutamine
with 25 mM Hepes
without Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-05540

DMEM with 4.5 g/L Glucose⁽¹⁾
with L-Glutamine
with 25 mM Hepes
with Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-05550

Special Media with 4.5 g/L Glucose

DMEM with 4.5 g/L Glucose⁽²⁾
with stab. L-Glutamine
with 25 mM Hepes
without Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-04550

DMEM with 4.5 g/L Glucose⁽²⁾
with L-Glutamin
without Sodium pyruvate
with 25 mM Hepes
without Phenol red
with 3.7 g/L NaHCO₃ 500 ml P04-05545

DMEM with 4.5 g/L Glucose⁽²⁾
with stab. Glutamine
with Sodium pyruvate
without Phenol red
with 3.7 g/L NaHCO₃ 500 ml P04-03588

DMEM with 4.5 g/L Glucose⁽²⁾
without L-Glutamine
with 25 mM Hepes
with Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-01597

DMEM (10 x)⁽²⁾
with 4.5 g/L Glucose
without L-Glutamine
without Sodium pyruvate
with NEAA
without NaHCO₃ 500 ml P04-03510

DMEM with 4.5 g/L Glucose⁽²⁾
without L-Glutamine
with Sodium pyruvate
without L-Arginine
with 3.7 g/L NaHCO₃ 500 ml P04-03598

DMEM with 4.5 g/L Glucose⁽²⁾
with L-Glutamine
with 25 mM Hepes
without Sodium pyruvate
with 2.2 g/L NaHCO₃ 500 ml P04-04057

DMEM with 4.5 g/L Glucose⁽²⁾
with L-Glutamine
without Sodium pyruvate
without Sodium chloride
without NaHCO₃ 500 ml P04-03560

DMEM with 4.5 g/L Glucose⁽²⁾
with L-Glutamine
with Sodium pyruvate
with 1.5 g/L NaHCO₃ 500 ml P04-03596

DMEM with 5.5 g/L Glucose⁽²⁾
with L-Glutamin
without Sodium pyruvate
with 3.7 g/L NaHCO₃ 500 ml P04-03551

DMEM with 4.5 g/L Glucose⁽²⁾
with stab. Glutamine
with Sodium pyruvate
with 25 mM Hepes
without Phenol red
with 0.5 g/L NaHCO₃ 500 ml P04-01163

DMEM with 4.5 g/L Glucose⁽²⁾
with L-Glutamine
without Sodium pyruvate
without Isoleucine
with 3.7 g/L NaHCO₃ 500 ml P04-03503

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Powder Media

DMEM with 4.5 g/L Glucose ⁽¹⁾ without L-Glutamine		
without Sodium pyruvate	10 L	P03-6510
without NaHCO ₃	50 L	P03-6550
DMEM with 4.5 g/L Glucose ₍₁₎ with L-Glutamine		
without Sodium pyruvate	10 L	P03-0710
without NaHCO ₃	50 L	P03-0750
DMEM with 4.5 g/L Glucose ₍₁₎ with L-Glutamine		
with Sodium pyruvate	10 L	P03-0810
without NaHCO ₃	50 L	P03-0850
DMEM with 4.5 g/L Glucose ⁽¹⁾ with L-Glutamine		
without Sodium pyruvate		
with 25 mM Hepes	10 L	P03-0910
without NaHCO ₃	50 L	P03-0950
DMEM with 4.5 g/L Glucose ₍₁₎ with L-Glutamine		
with Sodium pyruvate		
with 25 mM Hepes	10 L	P03-1010
without NaHCO ₃	50 L	P03-1050

Composition

	Components	mg/L
Inorganic Salts	Calcium chloride anhydrous	200.00
	Iron(III) nitrate x 9H ₂ O	0.10
	Magnesium sulfate anhydrous	97.66
	Potassium chloride	400.00
	Sodium chloride	6,400.00
	Sodium dihydrogen phosphate anhydrous	108.69
Other Components	D(+)-Glucose anhydrous	4,500.00
	Hepes	5,958.00
	Phenol red	15.00
	Sodium pyruvate	110.00
Amino acids	L-Arginine x HCl	84.00
	L-Cystine x 2HCl	62.58
	L-Glutamine	584.00
	Glycine	30.00
	L-Histidine x HCl x H ₂ O	42.00
	L-Isoleucine	104.80
	L-Leucine	104.80
	L-Lysine x HCl	146.20
	L-Methionine	30.00
	L-Phenylalanine	66.00
	L-Serine	42.00
	L-Threonine	95.20
	L-Tryptophan	16.00
L-Tyrosine x 2Na	103.79	
L-Valine	93.60	
Vitamins	D-Calcium pantothenate	4.00
	Choline chloride	4.00
	Folic acid	4.00
	myo-Inositol	7.00
	Nicotinamide	4.00
	Pyridoxine x HCl	4.00
	Riboflavin	0.40
	Thiamine x HCl	4.00

When 5,957.50 mg/L HEPES is included there is only 5,400.00 mg/L sodium chloride.

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