

NIDB Medium 8

Dulbecco's Modified Eagle Medium (DMEM) with high glucose

- [+] L-Glutamine**
- [+] Glucose**
- [+] Phenol red**
- [+] Sodium Pyruvate**
- [+] Sodium bicarbonate**
- [-] HEPES**

0.1 μ m sterile filtered

*DMEM/HIGH GLUCOSE is commercially available from cytiva – HyClone
Cat No.: SH30243

DMEM formulation

Component	Concentration (mg/L)	mM
Amino acid		
L-Arginine-HCl	84	0.3987
L-Cystine-2HCl	62.57	0.1998
L-Glutamine	584	3.9959
Glycine	30	0.3996
L-Histidine-HCl-H ₂ O	42	0.2004
L-Isoleucine	104.8	0.7989
L-Leucine	104.8	0.7990
L-Lysine-HCl	146.2	0.8004
L-Methionine	30	0.2011
L-Phenylalanine	66	0.3995
L-Serine	42	0.3997
L-Threonine	95.2	0.7992
L-Tryptophan	16	0.0783
L-Tyrosine-2Na-2H ₂ O	103.79	0.3974
L-Valine	93.6	0.7990
Inorganic salts		
Calcium chloride	200	1.8021
Ferric nitrate-9H ₂ O	0.1	0.0002
Potassium chloride	400	5.3655
Magnesium sulfate	97.67	0.8112
Sodium chloride	6400	109.514
Sodium phosphate monobasic H ₂ O	125	0.9059
Vitamins		
Calcium D-pantothenate	4	0.0084
D-Pantothenic acid Na salt	0	0
Choline chloride	4	0.0286
Folic acid	4	0.0091
Myo-inositol	7	0.0389
Niacinamide	4	0.0328
Pyridoxine-HCl	4	0.0195
Riboflavin	0.4	0.0011
Thiamine-HCl	4	0.0119
Other		
D-Glucose	4500	24.9778
HEPES	0	0
Phenol red-Na	15.9	0.0422
Sodium pyruvate	110	0.9996
Sodium bicarbonate	3700	44.0424