

IMDM w/ HEPES  
& L-Glutamine

12-722



Description	CAS #	Chemical Formula	Concentration		Molarity	
			g/L	mg/L	mM	uM
Calcium Chloride Anhydrous	10043-52-4	CaCl <sub>2</sub>	0.165	165.000	1.487	1.487E+03
Dextrose	50-99-7	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	4.500	4.500E+03	24.978	2.498E+04
Magnesium Sulfate Anhydrous	7487-88-9	MgSO <sub>4</sub>	9.766E-02	97.660	0.811	811.332
Potassium Chloride	7447-40-7	KCl	0.330	330.000	4.427	4.427E+03
Sodium Bicarbonate	144-55-8	NaHCO <sub>3</sub>	3.024	3.024E+03	35.996	3.600E+04
Sodium Chloride	7647-14-5	NaCl	4.505	4.505E+03	77.088	7.709E+04
Sodium Selenite (Platelet Factor Enriched Serum)	10102-18-8	Na <sub>2</sub> SeO <sub>3</sub>	1.130E-05	1.130E-02	6.534E-05	6.534E-02
L-Alanine	56-41-7	HO <sub>2</sub> CCH(NH <sub>2</sub> )CH <sub>3</sub>	2.500E-02	25.000	0.281	280.615
L-Arginine Monohydrochloride	1119-34-2	C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> • HCl	0.084	84.000	0.399	398.747
L-Asparagine	70-47-3	C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub>	2.499E-02	24.989	0.189	189.141
L-Aspartic Acid	56-84-8	HO <sub>2</sub> CCH(NH <sub>2</sub> )CH <sub>2</sub> CO <sub>2</sub> H	3.000E-02	30.000	0.225	225.394
L-Glutamic Acid	56-86-0	C <sub>5</sub> H <sub>9</sub> N <sub>1</sub> O <sub>4</sub>	0.075	75.000	0.510	5.099E+02
L-Glutamine	56-85-9	C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub>	0.584	584.000	3.996	3.996E+03
Glycine	56-40-6	HO <sub>2</sub> CCH <sub>2</sub> NH <sub>2</sub>	3.000E-02	30.000	0.400	399.627
L-Histidine Monohydrochloride Monohydrate	5934-29-2	C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> • HCl • H <sub>2</sub> O	4.200E-02	42.000	0.200	200.382
L-Isoleucine	73-32-5	HO <sub>2</sub> CCH(NH <sub>2</sub> )CH(CH <sub>3</sub> )CH <sub>2</sub> CH <sub>3</sub>	0.105	104.800	0.799	798.963
L-Leucine	61-90-5	HO <sub>2</sub> CCH(NH <sub>2</sub> )CH <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub>	0.105	104.800	0.799	798.963
L-Lysine Monohydrochloride	657-27-2	C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> • HCl	0.146	146.200	0.800	800.438
L-Methionine	63-68-3	HO <sub>2</sub> CCH(NH <sub>2</sub> )CH <sub>2</sub> CH <sub>2</sub> SCH <sub>3</sub>	3.000E-02	30.000	0.201	201.072
L-Phenylalanine	63-91-2	HO <sub>2</sub> CCH(NH <sub>2</sub> )CH <sub>2</sub> C <sub>6</sub> H <sub>5</sub>	6.600E-02	66.000	0.400	399.540
L-Proline	147-85-3	C <sub>5</sub> H <sub>9</sub> N <sub>1</sub> O <sub>2</sub>	4.000E-02	40.000	0.347	347.433
L-Serine	56-45-1	HO <sub>2</sub> CCH(NH <sub>2</sub> )CH <sub>2</sub> OH	4.200E-02	42.000	0.400	399.657
L-Threonine	72-19-5	HO <sub>2</sub> CCH(NH <sub>2</sub> )CH(OH)CH <sub>3</sub>	9.520E-02	95.200	0.799	799.194
L-Tryptophan	73-22-3	C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub>	1.600E-02	16.000	7.834E-02	78.343
L-Valine	72-18-4	HO <sub>2</sub> CCH(NH <sub>2</sub> )CH(CH <sub>3</sub> ) <sub>2</sub>	9.360E-02	93.600	0.799	799.317
D-Biotin (Vitamin H)	58-85-5	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> S	1.300E-05	1.300E-02	5.321E-05	5.321E-02
D-Calcium Pantothenate (Vitamin B5)	137-08-6	C <sub>18</sub> H <sub>32</sub> CaN <sub>2</sub> O <sub>10</sub>	4.000E-03	4.000	8.394E-03	8.394
Choline Chloride	67-48-1	HOCH <sub>2</sub> CH <sub>2</sub> N(CH <sub>3</sub> ) <sub>3</sub> Cl	4.000E-03	4.000	2.865E-02	28.647
Cyanocobalamin (Vitamin B12)	68-19-9	C <sub>63</sub> H <sub>88</sub> CoN <sub>14</sub> O <sub>14</sub> P	1.300E-05	1.300E-02	9.591E-06	9.591E-03
Folic Acid	59-30-3	C <sub>19</sub> H <sub>19</sub> N <sub>7</sub> O <sub>6</sub>	4.000E-03	4.000	9.062E-03	9.062
Inositol	87-89-8	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	7.000E-03	7.000	3.885E-02	38.846
Niacinamide (Nicotinamide)	98-92-0	C <sub>6</sub> H <sub>6</sub> N <sub>2</sub> O	4.000E-03	4.000	3.276E-02	32.757
Pyridoxine Monohydrochloride	58-56-0	C <sub>8</sub> H <sub>11</sub> N <sub>1</sub> O <sub>3</sub>	4.000E-03	4.000	1.946E-02	19.455
Riboflavin (Vitamin B2)	83-88-5	C <sub>17</sub> H <sub>20</sub> N <sub>4</sub> O <sub>6</sub>	4.000E-04	0.400	1.063E-03	1.063
Thiamine Monohydrochloride (Vitamin B1)	67-03-8	C <sub>12</sub> H <sub>18</sub> N <sub>4</sub> O <sub>4</sub> SCl <sub>2</sub>	4.000E-03	4.000	1.186E-02	11.859
HEPES Buffer	7365-45-9	C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S	5.958	5.958E+03	25.001	2.500E+04
Phenol Red	34487-61-1	C <sub>19</sub> H <sub>14</sub> O <sub>5</sub> S	0.015	15.340	0.041	40.755
Pyruvic Acid Sodium Salt	113-24-6	CH <sub>3</sub> COCO <sub>2</sub> Na	0.110	110.000	1.000	999.636
Potassium Nitrate	7757-79-1	KNO <sub>3</sub>	0.000076	0.076	0.001	0.752
L-Tyrosine Disodium Salt, Dihydrate	122666-78-9	C <sub>9</sub> H <sub>9</sub> N <sub>1</sub> O <sub>3</sub> Na <sub>2</sub> • 2H <sub>2</sub> O	0.104	103.790	0.397	397.374
L-Cystine Dihydrochloride	30925-07-6	C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub> • 2HCl	0.091	91.240	0.291	291.315
Sodium Phosphate Monobasic, Anhydrous	7558-80-7	NaH <sub>2</sub> PO <sub>4</sub>	0.109	108.690	0.906	905.750