

Schneider's Drosophila  
Medium w/ L-Glutamine

04-351

**Lonza**

Description	CAS #	Chemical Formula	Concentration		Molarity	
			g/L	mg/L	mM	uM
Calcium Chloride Anhydrous	10043-52-4	CaCl <sub>2</sub>	0.600	600.000	5.406	5.406E+03
Dextrose	50-99-7	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	2.000	2.000E+03	11.101	1.110E+04
Magnesium Sulfate Heptahydrate	10034-99-8	MgSO <sub>4</sub> • 7H <sub>2</sub> O	3.700	3.700E+03	15.012	1.501E+04
Potassium Chloride	7447-40-7	KCl	1.600	1.600E+03	21.462	2.146E+04
Potassium Phosphate Monobasic Anhydrous	7778-77-0	KH <sub>2</sub> PO <sub>4</sub>	0.450	450.000	3.306	3.306E+03
Sodium Bicarbonate	144-55-8	NaHCO <sub>3</sub>	0.400	400.000	4.761	4.761E+03
Sodium Chloride	7647-14-5	NaCl	2.100	2.100E+03	35.934	3.593E+04
Sodium Phosphate Dibasic-7-Hydrate	7782-85-6	Na <sub>2</sub> HPO <sub>4</sub> • 7H <sub>2</sub> O	1.321	1.321E+03	4.928	4.928E+03
L-Arginine Free Base	74-79-3	C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub>	0.400	400.000	2.296	2.296E+03
L-Aspartic Acid	56-84-8	HO <sub>2</sub> CCH(NH <sub>2</sub> )CH <sub>2</sub> CO <sub>2</sub> H	0.400	400.000	3.005	3.005E+03
L-Cysteine, Free Base	52-90-4	HS-CH <sub>2</sub> CH(NH <sub>2</sub> )COOH	6.000E-02	60.000	0.495	495.213
L-Cystine	56-89-3	C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub>	0.100	100.000	0.416	416.146
L-Glutamic Acid	56-86-0	C <sub>5</sub> H <sub>9</sub> NO <sub>4</sub>	0.800	800.000	5.438	5.438E+03
L-Glutamine	56-85-9	C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub>	1.800	1.800E+03	12.316	1.232E+04
Glycine	56-40-6	HO <sub>2</sub> CCH <sub>2</sub> NH <sub>2</sub>	0.250	250.000	3.330	3.330E+03
L-Histidine, Free Base	71-00-1	(C <sub>3</sub> N <sub>2</sub> H <sub>3</sub> )CH <sub>2</sub> CH(NH <sub>2</sub> )COOH	0.400	400.000	2.578	2.578E+03
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>	0.150	150.000	1.144	1.144E+03
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>	0.150	150.000	1.144	1.144E+03
L-Lysine Monohydrochloride	657-27-2	C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> • HCl	1.650	1.650E+03	9.034	9.034E+03
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>	0.800	800.000	5.362	5.362E+03
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>	0.150	150.000	0.908	908.045
L-Proline	147-85-3	C <sub>5</sub> H <sub>9</sub> NO <sub>2</sub>	1.700	1.700E+03	14.766	1.477E+04
L-Serine	56-45-1	HO <sub>2</sub> CCH(NH <sub>2</sub> )CH <sub>2</sub> OH	0.250	250.000	2.379	2.379E+03
L-Threonine	72-19-5	HO <sub>2</sub> CCH(NH <sub>2</sub> )CH(OH)CH <sub>3</sub>	0.350	350.000	2.938	2.938E+03
L-Tryptophan	73-22-3	C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub>	0.100	100.000	0.490	489.644
L-Valine	72-18-4	HO <sub>2</sub> CCH(NH <sub>2</sub> )CH(CH <sub>3</sub> ) <sub>2</sub>	0.300	300.000	2.562	2.562E+03
L-Tyrosine Disodium Salt, Dihydrate	122666-78-9	C <sub>9</sub> H <sub>9</sub> NO <sub>3</sub> Na <sub>2</sub> • 2H <sub>2</sub> O	0.721	720.763	2.760	2.760E+03
Alpha-Keto-Glutaric Acid	328-50-7	C <sub>5</sub> H <sub>6</sub> O <sub>5</sub>	0.200	200.000	1.369	1.369E+03
Succinic Acid	110-15-6	C <sub>4</sub> H <sub>6</sub> O <sub>4</sub>	0.100	100.000	0.847	846.812
Fumaric Acid	110-17-8	C <sub>4</sub> H <sub>4</sub> O <sub>4</sub>	0.100	100.000	0.862	861.549
Beta-Alanine	107-95-9	NH <sub>2</sub> CH <sub>2</sub> •CH <sub>2</sub> COOH	0.500	500.000	5.612	5.612E+03
Yeastolate	NA	NA	2.000	2.000E+03	NA	
L-Malic Acid, Hydroxysuccinic Acid	97-67-6	C <sub>4</sub> H <sub>6</sub> O <sub>5</sub>	0.100	100.000	0.746	745.768
D(+) Trehalose 2H <sub>2</sub> O	6138-23-4	C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> •2H <sub>2</sub> O	2.000	2.000E+03	5.287	5.287E+03