



3050 Spruce Street
 Saint Louis, Missouri 63103 USA
 Telephone 800-325-5832 • (314) 771-5765
 Fax (314) 286-7828
 email: techserv@sial.com
 sigma-aldrich.com

Product Information

PLANT CELL CULTURE BASAL SALT MIXTURES and MEDIA (mg/L)

Shaded columns are deleted products

COMPONENT	A2670	A3918	A6045	A6170	C1416	C3555	C3680	C6798	D1039	D1164	M5524
Aluminum Chloride•6H 0											
Ammonium Nitrate	400.0	100.0	200.0	400.0		1601	800.4	1650.		400.0	1650.0
Ammonium Phosphate											
Ammonium Sulfate					463.0				400.0		
Boric Acid	6.2	1.55	3.1	6.2	1.6	6.2	6.2	6.2	10.62	6.2	6.2
Calcium Chloride Anhydrous	332.2	83.0	166.0	332.2	125.3	332.2	332.2		226.5	64.14	332.2
Calcium Nitrate								492.3		386.3	
Calcium Phosphate Tribasic											
Cobalt Chloride•6H 0	0.025	0.006	0.012	0.025		0.025	0.025	0.025	0.002	0.025	0.025
Cupric Sulfate•\$5H 0	0.025	0.006	0.012	0.025		0.025	0.025	0.025	0.002	0.25	0.025
Na -EDTA	74.5	18.62	37.25	74.5	37.25	37.26	37.26	37.3	37.3	37.3	37.26
ZnNa -EDTA											
Ferric Chloride\$6H 0											
Ferric Citrate											
Ferric Sulfate											
Ferric Tartrate•2H 0											
Ferrous Sulfate•7H 0	55.7	13.92	27.85	55.7	27.85	27.8	27.8	27.8	27.8	27.8	27.8
Magnesium Sulfate	180.7	45.17	90.35	180.7	90.37	180.7	180.7	180.6	244.7	180.7	180.7
Manganese Chloride•4H 0											
Manganese Sulfate•H 0	16.9	4.225	8.45	16.9	3.33	16.9	16.9	0.845	1.68	22.3	16.9
Molybdenum Trioxide											
Molybdic Acid (Sodium	0.25	0.062	0.125	0.25		0.25	0.25	0.25	0.002	0.25	0.25
Nickel Chloride•6H 0										0.025	
Nickel Sulfate•\$6H 0											
Potassium Chloride						2237.0			600.0		
Potassium Iodide	0.3	0.075	0.15	0.3	0.8	0.83	0.83		1.583	0.83	0.83
Potassium Nitrate	480.0	120.0	240.0	480.0	2830.	2022.0	1900.	1900.	2000.	340.0	1900.0
Potassium Phosphate					400.0	170.0	170.0	170.0		170.0	170.0
Potassium Sulfate											
Sodium Nitrate											
Sodium Phosphate	330.6	82.5	165.0	330.6					250.0		
Sodium Sulfate											
Zinc Nitrate•6H 0											
Zinc Sulfate•7H 0	8.6	2.15	4.3	8.6	1.5	8.6	8.6	8.6	1.06	8.6	8.6

Formulas continued on next page

COMPONENT continued	A2670	A3918	A6045	A6170	C1416	C3555	C3680	C6798	D1039	D1164	M5524
ORGANICS											
Activated Charcoal		600.0									
Adenine Hemisulfate			80.0	80.0							
Agar		10000	10000	10000							
6-Benzylaminopurine (BA)											
D-Biotin											
6γ-γ-			2.0	15.0							
Glycine (Free Base)											
Indole-3-acetic Acid			0.5	4.0							
Indole-3-butyric Acid											
Kinetin											
MES (Free Acid)											
mvo-Inositol		100.0	100.0	100.0		90.1	90.1				
α-Naphthaleneacetic Acid											
Nicotinic Acid (Free Acid)						1.231	1.231				
Peptone											
Pyridoxine•HCl						1.028	1.028				
Sucrose		22500	30000	30000							
Thiamine•HCl		0.4	0.4	0.4		1.687	1.687				
Grams of powder to prepare 1 liter	1.9	33.7	41.2	42.1	4.0	6.7	3.6	4.5	3.8	1.6	4.3