***Phyto* Technology Laboratories®** www.phytotechlab.com All components expressed in mg/L 	Anderson Basal Salt Mixture	Banana AGS Medium	Blaydes Modified Basal Medium	Chu N6 Basal Medium w/ Vitamins	Cape Sundew/ Venus Fly Trap Multip. Medium	Carrot Callus Initiation medium	Cape Sundew/ Venus Fly Trap Pretransplant Medium	Carrot Shoot Development medium
COMPONENT	**A267**	**B144**	**B514**	**C167**	**C206**	**C212**	**C216**	**C222**
Ammonium Nitrate	400.0	1,650.0	1,000.0		400.0		825.0	
Ammonium Sulfate				463.0		134.0		134.0
Boric Acid	6.20	6.20	1.60	1.60	6.20	3.00	3.10	3.00
Calcium Chloride, Anhydrous	332.200	333.000		125.330	332.200	113.240	166.500	113.240
Calcium Nitrate			241.100					
Cobalt Chloride·$6H_2O$	0.0250	0.0250			0.0250	0.0250	0.0125	0.0250
Cupric Sulfate·$5H_2O$	0.0250	0.0250			0.0250	0.0250	0.0125	0.0250
Na_2 EDTA·$2H_2O$	74.50		74.50	37.25	74.50	37.26		37.26
Ferric Sodium EDTA		36.700					18.350	
Ferrous Sulfate·$7H_2O$	55.70		55.70	27.85	55.70	27.80		27.80
Magnesium Sulfate, Anhydrous	180.700	181.000	17.100	90.370	180.700	122.090	90.500	122.090
Manganese Sulfate·H_2O	16.900	16.900	4.400	3.300	16.900	10.000	8.450	10.000
Sodium Molybdate(VI)·$2H_2O$	0.250	0.250			0.250	0.250	0.125	0.250
Potassium Chloride			100.000					
Potassium Iodide	0.300	0.830	0.800	0.800		0.750	0.415	0.750
Potassium Nitrate	480.00	1,900.00	65.00	2,830.00	480.00	2,500.00	950.00	2,500.00
Potassium Phosphate, Monobasic, Anhydrous		170.0	300.0	400.0			85.0	
Sodium Phosphate Monobasic·H_2O	330.6	295.0			380.0	150.0		150.0
Zinc Sulfate·$7H_2O$	8.600	8.600	1.500	1.500	8.600	2.000	4.300	2.000
Adenine Hemisulfate·$2H_2O$					80.000			
2,4-Dichlorophenoxyacetic Acid						1.000		
6-γ,γ-Dimethylallylaminopurine (2IP)		10.000			1.000			
Glycine			2.000	2.000				
Indole-3-acetic Acid		1.000						
Kinetin								0.200
myo -Inositol		100.0			100.0	100.0	50.0	100.0
Nicotinic Acid				0.50		1.00		1.00
Pyridoxine·HCl				0.50		1.00		1.00
Sucrose			30,000.0					
Thiamine·HCl		0.40	0.10	1.00	0.40	10.00	0.20	10.00
Grams of powder to prepare 1 liter	1.890	4.710	31.860	3.990	2.120	3.210	2.200	3.210
pH±0.5 at RT	3.75	4.75	NS	4.00	3.50	4.00	5.00	4.00

***Phyto* Technology Laboratories®** www.phytotechlab.com All components expressed in mg/L 	Chee & Pool C2d Vitis Medium	Chu N6 Basal Salt Mixture	DCR Basal Salt Mixture	DKW Basal Salt Mixture w/ Sucrose	DKW Basal Salt Mixture	DKW Basal Salt Mixture W/ 10.0 g/L Sucrose	EXS IIIa™ Basal Medium	EXS III™ Basal Medium	Economou & Read Basal Medium
COMPONENT	**C287**	**C416**	**D146**	**D189**	**D190**	**D191**	**E333**	**E337**	**E575**
Ammonium Nitrate	1,650.0		400.0	1,416.0	1,416.0	1,416.0	Proprietary Formulation	Proprietary Formulation	400.0
Ammonium Phosphate, Monobasic									
Ammonium Sulfate		463.0							132.0
Boric Acid	6.20	1.60	6.20	4.80	4.80	4.80			6.20
Calcium Chloride, Anhydrous		125.330	64.140	112.500	112.500	112.500			332.200
Calcium Nitrate	492.300		386.310	1,367.000	1,367.000	1,367.000			
Cobalt Chloride·$6H_2O$	0.0250		0.0250						0.0250
Cupric Sulfate·$5H_2O$	0.0250		0.2500	0.2500	0.2500	0.2500			0.0250
Na_2 EDTA·$2H_2O$	37.30	37.25	37.30	45.40	45.40	45.40			
Ferrous Sulfate·$7H_2O$	27.80	27.85	27.80	33.80	33.80	33.80			
Iron Chelate, Sequestrene® 330									56.000
Magnesium Sulfate, Anhydrous	180.600	90.370	180.700	361.490	361.490	361.490			180.700
Manganese Sulfate·H_2O	0.845	3.300	22.300	33.500	33.500	33.500			16.900
Sodium Molybdate(VI)·$2H_2O$	0.250		0.250	0.390	0.390	0.390			0.250
Nickel Chloride·$6H_2O$			0.025						
Nickel Sulfate·$6H_2O$				0.005	0.005	0.005			
Potassium Iodide		0.800	0.830						
Potassium Nitrate	1,900.00	2,830.00	340.00						202.00
Potassium Phosphate, Monobasic, Anhydrous	170.0	400.0	170.0	265.0	265.0	265.0			408.0
Potassium Sulfate				1,559.000	1,559.000	1,559.000			
Zinc Nitrate·$6H_2O$				17.000	17.000	17.000			
Zinc Sulfate·$7H_2O$	8.600	1.500	8.600						8.600
myo -Inositol	10.0								100.0
Nicotinic Acid	1.00								
Pyridoxine·HCI	1.00								
Sucrose				30,000.0		10,000.0			
Thiamine·HCI	1.00								0.40
Grams of powder to prepare 1 liter	4.490	4.000	1.640	35.220	5.220	15.220	3.950	3.870	1.840
pH±0.5 at RT	4.00	4.25	4.00	4.00	4.00	4.00	4.00	4.75	NS

***Phyto* Technology Laboratories®** www.phytotechlab.com All components expressed in mg/L 	Gamborg (PRL-4-DM) Long Medium	Gresshoff & Doy Basal Slat Mixture	Gamborg B-5 Basal Medium	Gamborg Basal Salt Mixture	Hoagland Modified Basal Salt Mixture	Heller Basal Salt Mixture	Heller/ White Modified Basal Salt Mixture
COMPONENT	**G359**	**G371**	**G398**	**G768**	**H353**	**H393**	**H396**
Aluminum Chloride·$6H_2O$						0.054	0.030
Ammonium Nitrate		1,000.0					
Ammonium Phosphate, Monobasic					115.03		
Ammonium Sulfate	200.0		134.0	134.0			
Boric Acid	3.00	0.30	3.00	3.00	2.86	1.00	1.24
Calcium Chloride, Anhydrous	113.240		113.240	113.240		56.700	
Calcium Nitrate		241.200			656.400		300.000
Cobalt Chloride·$6H_2O$	0.2500	0.0250	0.0250	0.0250			
Cupric Sulfate·$5H_2O$	0.2500	0.0250	0.0250	0.0250	0.0800	0.0300	0.0300
Na_2 EDTA·$2H_2O$	186.00	37.25	37.26	37.26	3.53		
Ferric Chloride						1.000	
Ferric Sulfate·XH_2O							25.0
Ferrous Sulfate·$7H_2O$	139.00	27.85	27.80	27.80	2.50		
Magnesium Sulfate, Anhydrous	122.090	17.099	122.090	122.090	240.760	122.100	351.630
Manganese Chloride·$4H_2O$					1.810		
Manganese Sulfate·H_2O	132.000	1.000	10.000	10.000		0.076	0.010
Sodium Molybdate(VI)·$2H_2O$	0.250	0.025	0.250	0.250			
Molybdenum Trioxide					0.016		
Nickel Chloride·$6H_2O$						0.030	0.030
Potassium Chloride	300.000	65.000				750.000	65.000
Potassium Iodide	0.750	0.800	0.750	0.750		0.010	0.010
Potassium Nitrate	1,000.00	1,000.00	2,500.00	2,500.00	606.60		80.00
Potassium Phosphate, Monobasic, Anhydrous		300.0					
Sodium Nitrate						600.000	
Sodium Phosphate Monobasic·H_2O	90.0		150.0	150.0		108.8	16.5
Sodium Sulfate							200.000
Zinc Sulfate·$7H_2O$	3.000	0.300	2.000	2.000	0.220	1.000	1.000
p-Aminobenzoic Acid	0.200						
L-Arginine (Free Base)	40.000						
L-Ascorbic Acid	0.400						
Asparagine	40.000						
D-Biotin	0.000	0.200					
Calcium Pantothenate	0.400						
Choline Chloride	0.200						
Folic Acid	0.015						
L-Glutamine	60.000						
Glycine	20.000	4.000					
myo -Inositol	100.0	10.0	100.0				
Methionine	30.000						
Nicotinic Acid	0.50	0.10	1.00				
L-Phenylalanine	20.00						
Pyridoxine·HCl	0.50	0.10	1.00				
Riboflavin, Vit. B_2	0.015						
Thiamine·HCl	0.50	1.00	10.00				
L-Tryptophan	40.0						
Grams of powder to prepare 1 liter	3.300	2.710	3.210	3.100	1.630	1.640	1.040
pH±0.5 at RT	3.75	4.00	4.00	4.00	4.75	4.90	4.70

***Phyto* Technology Laboratories®** www.phytotechlab.com All components expressed in mg/L 	Hosta Initiation/ Multiplication Medium	Hosta Multiplication Medium	Hosta Rooting Medium	Kao & Michayluk Basal Salt Mixture	Kao & Michayluk Modified Basal Medium	Lloyd and McCown Woody Plant Basal Salt Mix.	Lloyd and McCown Woody Plant Micronut. Mixture	Lloyd and McCown Woody Plant Medium
COMPONENT	**H435**	**H436**	**H437**	**K413**	**K427**	**L154**	**L444**	**L449**
Ammonium Nitrate	1,650.0	1,650.0	1,650.0	600.0	600.0	400.0		400.0
Boric Acid	6.20	6.20	6.20	3.00	3.00	6.20	6.20	6.20
Calcium Chloride, Anhydrous	332.200	332.200	332.200	453.000	453.000	72.500	72.500	72.500
Calcium Nitrate						386.000		386.000
Cobalt Chloride·$6H_2O$	0.0250	0.0250	0.0250	0.0250	0.0250			
Cupric Sulfate·$5H_2O$	0.0250	0.0250	0.0250	0.0250	0.0250	0.2500	0.2500	0.2500
Na_2 EDTA·$2H_2O$	37.26	37.26	37.26	37.26	37.26	37.30	37.30	37.30
Ferrous Sulfate·$7H_2O$	27.80	27.80	27.80	27.85	27.85	27.90	27.85	27.90
Magnesium Sulfate, Anhydrous	180.700	180.700	180.700	146.550	146.550	180.700	180.700	180.700
Manganese Sulfate·H_2O	16.900	16.900	16.900	10.000	10.000	22.300	22.300	22.300
Sodium Molybdate(VI)·$2H_2O$	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250
Potassium Chloride				300.000	300.000			
Potassium Iodide	0.830	0.830	0.830	0.750	0.750			
Potassium Nitrate	1,900.00	1,900.00	1,900.00	1,900.00	1,900.00			
Potassium Phosphate, Monobasic, Anhydrous	300.0	300.0	300.0	170.0	170.0	170.0	170.0	170.0
Potassium Sulfate						990.000		990.000
Sodium Phosphate Monobasic·H_2O	170.0	170.0	170.0					
Zinc Sulfate·$7H_2O$	8.600	8.600	8.600	2.000	2.000	8.600	8.600	8.600
Adenine Hemisulfate·$2H_2O$	160.000	160.000						
Agar	8,000.0	8,000.0	8,000.0					
p-Aminobenzoic Acid					0.020			
L-Ascorbic Acid					2.000			
6-Benzylaminopurine	2.000	0.100	0.100					
D-Biotin					0.010			
Calcium Pantothenate					1.000			
Casein, Enzymatic Hydrolysate	500.000	500.000	500.000					
Cholecalciferol, Vit. D_3					0.010			
Choline Chloride					1.000			
Citric Acid, Anhydrous					40.000			
Cyanocobalamin, Vit B_{12}					0.020			
Folic Acid					0.400			
Fumaric Acid					40.000			
Glycine	2.000	2.000						2.000
L-Malic Acid					40.000			
myo -Inositol	100.0	100.0	100.0		100.0			100.0
α-Naphthaleneacetic Acid	0.500	0.500	0.500					
Niacinamide					1.00			
Nicotinic Acid								0.50
Pyridoxine·HCI					1.00			0.50
Pyruvic Acid, Potassium Salt					20.00			
Retinol, Vit. A					0.010			
Riboflavin, Vit. B_2					0.200			
Sucrose	30,000.0	30,000.0	30,000.0					
Thiamine·HCI	0.40	0.40	0.40		1.00			1.00
Grams of powder to prepare 1 liter	43.400	43.390	43.230	3.650	3.900	2.300	0.530	2.410
pH±0.5 at RT	4.30	4.30	4.30	4.00	3.50	4.00	4.00	4.00

***Phyto* Technology Laboratories®** www.phytotechlab.com All components expressed in mg/L 	Linsmaier & Skoog Basal Medium, Buffered & pH Adjusted	Linsmaier & Skoog Basal Medium	Linsmaier & Skoog Basal Med. w/ 30 g/L Sucrose, pH Adjusted & Buffered	Linsamaier and Skoog Basal Medium (MSMO)	Litvay Basal Salt Mixture	Linsamaier and Skoog Basal Medium (MSMO)
COMPONENT	**L452**	**L467**	**L473**	**L477**	**L546**	**L689**
Ammonium Nitrate	1,650.0	1,650.0	1,650.0	1,650.0	1,650.0	1,650.0
Boric Acid	6.20	6.20	6.20	6.20	31.00	6.20
Calcium Chloride, Anhydrous	332.200	332.200	332.200	332.200	16.610	332.200
Cobalt Chloride·$6H_2O$	0.0250	0.0250	0.0250	0.0250	0.1250	0.0250
Cupric Sulfate·$5H_2O$	0.0250	0.0250	0.0250	0.0250	0.5000	0.0250
Na_2 EDTA·$2H_2O$	37.26	37.26	37.26	37.26		37.26
Ferric Sodium EDTA					36.700	
Ferrous Sulfate·$7H_2O$	27.80	27.80	27.80	27.80		27.80
Magnesium Sulfate, Anhydrous	180.700	180.700	180.700	180.700	903.380	180.700
Manganese Sulfate·H_2O	16.900	16.900	16.900	16.900	21.000	16.900
Sodium Molybdate(VI)·$2H_2O$	0.250	0.250	0.250	0.250	1.250	0.250
Potassium Hydroxide	100.000		100.000	100.000		
Potassium Iodide	0.830	0.830	0.830	0.830	4.150	0.830
Potassium Nitrate	1,900.00	1,900.00	1,900.00	1,900.00	1,900.00	1,900.00
Potassium Phosphate, Monobasic, Anhydrous	170.0	170.0	170.0	170.0	340.0	170.0
Zinc Sulfate·$7H_2O$	8.600	8.600	8.600	8.600	43.000	8.600
Agar	7,000.0	7,000.0				
MES (Free Acid)	1,000.0		1,000.0	1,000.0		
myo -Inositol	100.0	100.0	100.0	100.0		100.0
Sucrose	30,000.0	30,000.0	30,000.0			
Thiamine·HCl	0.40	0.40	0.40	0.40		0.40
Grams of powder to prepare 1 liter	42.530	41.430	35.530	5.530	4.950	4.430
pH±0.5 at RT	5.75	4.75	5.75	5.75	4.75	4.00

***Phyto* Technology Laboratories®** www.phytotechlab.com All components expressed in mg/L 	MS Modified Basal Salt Mixture (1/2x Micros & Macros)	MS Modified Basal Salt Mixture	MS Modified Medium w/ BA & NAA	MS Modified Basal Medium w/ Gamborg Vitamins	MS Modified Basal Salt Mixture (No N, P, or K)	MG Mediuim (Modified MS/Gamborg Medium)	Musa (Banana) Multiplication Medium
COMPONENT	**M153**	**M290**	**M401**	**M404**	**M407**	**M419**	**M462**
Ammonium Nitrate	825.0	825.0	1,650.0	1,650.0			1,650.0
Ammonium Sulfate						33.5	
Boric Acid	3.10	6.20	6.20	6.20	6.20	2.30	6.20
Calcium Chloride, Anhydrous	166.100	166.100	332.200	332.200	332.200	111.360	332.200
Cobalt Chloride·$6H_2O$	0.0125	0.0250	0.0250	0.0250	0.0250	0.0125	0.0250
Cupric Sulfate·$5H_2O$	0.0125	0.0250	0.0250	0.0250	0.0250	0.0125	0.0250
Na_2 EDTA·$2H_2O$	18.63	37.26	37.26	37.26	37.26	18.64	37.25
Ferrous Sulfate·$7H_2O$	13.90	27.80	27.80	27.80	27.80	13.90	27.85
Magnesium Sulfate, Anhydrous	90.350	180.700	180.700	180.700	180.700	75.700	180.740
Manganese Sulfate·H_2O	8.450	16.900	16.900	16.900	16.900	6.700	16.900
Sodium Molybdate(VI)·$2H_2O$	0.125	0.250	0.250	0.250	0.250	0.125	0.250
Potassium Iodide	0.415	0.830	0.830	0.830	0.830	0.400	0.830
Potassium Nitrate	950.00	950.00	1,900.00	1,900.00		1,100.00	1,900.00
Potassium Phosphate, Monobasic, Anhydrous	85.0	170.0	170.0	170.0		42.5	170.0
Sodium Nitrate						437.800	
Sodium Phosphate Monobasic·H_2O						32.6	
Zinc Sulfate·$7H_2O$	4.300	8.600	8.600	8.600	8.600	2.700	8.600
L-Ascorbic Acid							20.000
6-Benzylaminopurine			1.000				4.500
Gellan Gum (CultureGel™)							2,000.000
Glycine			2.000				2.000
Indole-3-acetic Acid							0.175
myo -Inositol			100.0	100.0			
α-Naphthaleneacetic Acid			0.100				
Nicotinic Acid			0.50	1.00			0.50
Pyridoxine·HCI			0.50	1.00			0.50
Sucrose			30,000.0				30,000.0
Thiamine·HCI			0.40	10.00			0.40
Grams of powder to prepare 1 liter	2.170	2.390	34.440	4.440	0.610	1.880	36.360
pH±0.5 at RT	4.25	4.00	4.00	4.00	4.00	4.30	4.25

***Phyto* Technology Laboratories®** www.phytotechlab.com All components expressed in mg/L 	Murashige Modified Shoot Multiplication Basal Medium	MS Modified Basal Salt Mixture w/ FeNaEDTA	MS Macronutrient Salt Base	Murashige & Skoog Basal Salt Mixture - Finer & Nagasawa Modification	Murashige Modified Fern Multiplication Basal Medium	Murashige Modified Gerbera Multiplication Basal Medium	Murashige Modified Gerbera Pretransplant Basal Medium
COMPONENT	**M491**	**M499**	**M502**	**M504**	**M508**	**M509**	**M510**
Ammonium Nitrate	1,650.0	1,650.0	1,650.0	825.0	1,650.0	1,650.0	1,650.0
Boric Acid	6.20	6.20		6.20	6.20	6.20	6.20
Calcium Chloride, Anhydrous	333.000	333.000	332.200	332.200	333.000	333.000	333.000
Cobalt Chloride·$6H_2O$	0.0250	0.0250		0.0250	0.0250	0.0250	0.0250
Cupric Sulfate·$5H_2O$	0.0250	0.0250		0.0250	0.0250	0.0250	0.0250
Ferric Sodium EDTA	36.700	36.700		36.700	36.700	36.700	36.700
Magnesium Sulfate, Anhydrous	181.000	181.000	180.700	180.540	181.000	181.000	181.000
Manganese Sulfate·H_2O	16.900	16.900		16.900	16.900	16.900	16.900
Sodium Molybdate(VI)·$2H_2O$	0.250	0.250		0.250	0.250	0.250	0.250
Potassium Iodide	0.830	0.830		0.830	0.830	0.830	0.830
Potassium Nitrate	1,900.00	1,900.00	1,900.00	3,030.00	1,900.00	1,900.00	1,900.00
Potassium Phosphate, Monobasic, Anhydrous	170.0	170.0	170.0	170.0	170.0	170.0	170.0
Sodium Phosphate Monobasic·H_2O	170.0				255.0	85.0	85.0
Zinc Sulfate·$7H_2O$	8.600	8.600		8.600	8.600	8.600	8.600
Adenine Hemisulfate·$2H_2O$	80.000					80.000	
6-γ,γ-Dimethylallylaminopurine (2IP)	30.000						
Indole-3-acetic Acid	0.300					0.500	10.000
Kinetin					2.000	10.000	
myo -Inositol	100.0				100.0	100.0	100.0
α-Naphthaleneacetic Acid					0.100		
Nicotinic Acid						10.00	10.00
Pyridoxine·HCl						1.00	1.00
Thiamine·HCl	0.40				0.40	30.00	30.00
L-Tyrosine, Free Base						100.0	100.0
Grams of powder to prepare 1 liter	4.680	4.300	4.230	4.610	4.660	4.720	4.640
pH±0.5 at RT	4.90	4.75	4.75	NS	4.75	4.00	4.25

NS = No Specification Established

***Phyto* Technology Laboratories®** www.phytotechlab.com All components expressed in mg/L 	Murashige Modified Kalanchoe Multplication Basal Medium	Murashige Modified Kalanchoe Pre-transplant Basal Medium	Murashige Modified Lily Multiplication Basal Medium	MS Modified BC Potato Basal Medium	Murashige Modified African Violet/ Gloxinia Multiplication Basal Medium	Murashige Modified African Violet/ Gloxinia Pretransplant Basal Medium	Murashige & Skoog Basal Medium
COMPONENT	**M511**	**M512**	**M513**	**M516**	**M517**	**M518**	**M519**
Ammonium Nitrate	1,650.0	1,650.0	1,650.0	1,650.0	1,650.0	1,650.0	1,650.0
Boric Acid	6.20	6.20	6.20	6.20	6.20	6.20	6.20
Calcium Chloride, Anhydrous	333.000	333.000	333.000	333.000	333.000	333.000	332.200
Cobalt Chloride·$6H_2O$	0.0250	0.0250	0.0250	0.0250	0.0250	0.0250	0.0250
Cupric Sulfate·$5H_2O$	0.0250	0.0250	0.0250	0.0250	0.0250	0.0250	0.0250
Na_2 EDTA·$2H_2O$							37.26
Ferric Sodium EDTA	36.700	36.700	36.700	36.700	36.700	36.700	
Ferrous Sulfate·$7H_2O$							27.80
Magnesium Sulfate, Anhydrous	181.000	181.000	181.000	181.000	181.000	181.000	180.700
Manganese Sulfate·H_2O	16.900	16.900	16.900	16.900	16.900	16.900	16.900
Sodium Molybdate(VI)·$2H_2O$	0.250	0.250	0.250	0.250	0.250	0.250	0.250
Potassium Iodide	0.830	0.830	0.830	0.830	0.830	0.830	0.830
Potassium Nitrate	1,900.00	1,900.00	1,900.00	1,900.00	1,900.00	1,900.00	1,900.00
Potassium Phosphate, Monobasic, Anhydrous	170.0	170.0	170.0	170.0	170.0	170.0	170.0
Sodium Phosphate Monobasic·H_2O					170.0		
Zinc Sulfate·$7H_2O$	8.600	8.600	8.600	8.600	8.600	8.600	8.600
Adenine Hemisulfate·$2H_2O$					80.000		
6-γ,γ-Dimethylallylaminopurine (2IP)	3.000						
Glycine				2.000			2.000
Indole-3-acetic Acid		3.000			2.000	1.000	
Kinetin				0.040	2.000		
myo -Inositol	100.0	100.0	100.0	100.0	100.0	100.0	100.0
α-Naphthaleneacetic Acid			0.030				
Nicotinic Acid				0.50			0.50
Pyridoxine·HCI				0.50			0.50
Thiamine·HCI	0.40	0.40	0.40	0.40	0.40	0.40	0.10
Grams of powder to prepare 1 liter	4.410	4.410	4.400	4.410	4.660	4.400	4.430
pH±0.5 at RT	4.75	4.75	4.75	4.75	4.00	475.00	3.90

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COMPONENT	**M524**	**M527**	**M529**	**M530**	**M531**	**M535**	**M536**
Ammonium Nitrate	1,650.0	1,650.0		1,650.0		1,650.0	1,650.0
Boric Acid	6.20	6.20	62.00	6.20	6.20	6.20	6.20
Calcium Chloride, Anhydrous	332.200	333.000		332.200	332.200	332.200	332.200
Cobalt Chloride·$6H_2O$	0.0250	0.0250	0.2500	0.0250	0.0250	0.0250	0.0250
Cupric Sulfate·$5H_2O$	0.0250	0.0250	0.2500	0.0250	0.0250	0.0250	0.0250
Na_2 EDTA·$2H_2O$	37.26		373.00	37.26	37.26	37.26	37.26
Ferric Sodium EDTA		36.700					
Ferrous Sulfate·$7H_2O$	27.80		278.00	27.80	27.80	27.80	27.80
Magnesium Sulfate, Anhydrous	180.700	181.000		180.700	180.700	180.700	180.700
Manganese Sulfate·H_2O	16.900	16.900	169.000	16.900	16.900	16.900	16.900
Sodium Molybdate(VI)·$2H_2O$	0.250	0.250	2.500	0.250	0.250	0.250	0.250
Potassium Iodide	0.830	0.830	8.300	0.830	0.830	0.830	0.830
Potassium Nitrate	1,900.00	1,900.00		1,900.00		1,900.00	1,900.00
Potassium Phosphate, Monobasic, Anhydrous	170.0	170.0		170.0	170.0	170.0	170.0
Sodium Phosphate Monobasic·H_2O							170.0
Zinc Sulfate·$7H_2O$	8.600	8.600	86.000	8.600	8.600	8.600	8.600
Adenine Hemisulfate·$2H_2O$						80.000	80.000
Glycine				2.000			2.000
Indole-3-acetic Acid		0.300					
Kinetin		1.000					
MES (Free Acid)				1,000.0			
myo -Inositol		100.0		100.0		100.0	100.0
Nicotinic Acid				0.50			0.50
Pyridoxine·HCI				0.50			0.50
Thiamine·HCI		0.40		0.10		0.40	0.40
Grams of powder to prepare 1 liter	4.330	4.410	NA	5.430	0.780	4.510	4.680
pH±0.5 at RT	4.00	4.75	3.00	NS	4.00	3.75	4.75

NS = No Specification Established

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COMPONENT	**M541**	**M550**	**M554**	**M555**	**M561**	**M571**	**M576**	**M654**
Ammonium Nitrate	1,650.0	1,650.0		1,650.0	825.0		33,000.0	16,500.0
Boric Acid	6.20	6.20	6.20	6.20	6.20	6.20	124.00	
Calcium Chloride, Anhydrous	332.200	332.200		332.200	332.200	332.200	6,644.000	3,322.000
Cobalt Chloride·$6H_2O$	0.0250	0.0250	0.0250	0.0250	0.0250	0.0250	0.5000	
Cupric Sulfate·$5H_2O$	0.0250	0.0250	0.0250	0.0250	0.0250	0.0250	0.5000	
Na_2 EDTA·$2H_2O$		37.26	37.26	37.26	37.26	37.26	745.20	
Ferric Sodium EDTA	36.700							
Ferrous Sulfate·$7H_2O$		27.80	27.80	27.80	27.80	27.80	556.00	
Magnesium Sulfate, Anhydrous	180.700	180.700		180.700	180.700	180.700	3,614.000	1,810.000
Manganese Sulfate·H_2O	16.900	16.900	16.900	16.900	16.900	16.900	338.000	
Sodium Molybdate(VI)·$2H_2O$	0.250	0.250	0.250	0.250	0.250	0.250	5.000	
Potassium Iodide	0.830	0.830	0.830	0.830	0.830	0.830	16.600	
Potassium Nitrate	1,900.00	1,900.00		1,900.00	950.00	1,900.00	38,000.00	19,000.00
Potassium Phosphate, Monobasic, Anhydrous		170.0		170.0	170.0	170.0	3,400.0	1,700.0
Sodium Phosphate Monobasic·H_2O	300.0			148.0				
Zinc Sulfate·$7H_2O$	8.600	8.600	8.600	8.600	8.600	8.600	172.000	
Adenine Hemisulfate·$2H_2O$	150.000			80.000				
Casein, Enzymatic Hydrolysate	1,000.000							
2,4-Dichlorophenoxyacetic Acid		2.000						
Glycine	2.000							
Kinetin		0.050		1.000				
myo -Inositol	100.0	100.0		100.0				
α-Naphthaleneacetic Acid				0.100				
Nicotinic Acid	5.00	1.00						
Pyridoxine·HCI	1.00	1.00						
Sucrose		20,000.0		30,000.0				
Thiamine·HCI	0.50	10.00		0.40				
Grams of powder to prepare 1 liter	5.690	24.440	0.100	34.660	2.560	2.680	N/A	N/A
pH±0.5 at RT	4.75	3.75	4.00	3.75	4.00	4.00	3.25	4.25

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COMPONENT	**M701**	**M702**	**N479**	**N492**	**N613**	**N616**	**P713**	**Q673**	**R756**
Ammonium Molybdate							0.037		
Ammonium Nitrate	1,650.0	1,650.0			720.0	720.0	125.0	400.0	1,650.0
Ammonium Sulfate				463.0					
Boric Acid	6.20	6.20	10.00	3.00	10.00	10.00	1.86	6.20	6.20
Calcium Chloride, Anhydrous	333.000	332.200		125.330	166.000	166.000	19.628		333.000
Calcium Nitrate			345.000					833.770	
Cobalt Chloride·$6H_2O$	0.0250	0.0250	0.0250	0.0250				0.0250	0.0250
Cupric Sulfate·$5H_2O$	0.0250	0.0250	0.0250	0.0250	0.0250	0.0250	0.3700	0.0250	0.0250
Na_2 EDTA·$2H_2O$		37.26		37.26	37.26	37.26	37.30	37.30	
Ferric Sodium EDTA	36.700		36.700						36.700
Ferrous Sulfate·$7H_2O$		27.80		27.80	27.80	27.80	27.80	27.80	
Magnesium Sulfate, Anhydrous	181.000	180.700	61.000	90.370	90.372	90.372	58.565	175.790	181.000
Manganese Sulfate·H_2O	16.900	16.900	18.950	10.000	18.900	18.900	0.250	0.760	16.900
Sodium Molybdate(VI)·$2H_2O$	0.250	0.250	0.250	0.250	0.250	0.250		0.250	0.250
Potassium Iodide	0.830	0.830		0.750				0.080	0.830
Potassium Nitrate	1,900.00	1,900.00	125.00	2,830.00	950.00	950.00		1,800.00	1,900.00
Potassium Phosphate, Monobasic, Anhydrous	170.0	170.0	125.0	400.0	68.0	68.0	500.0	270.0	170.0
Sodium Phosphate Monobasic·H_2O		148.0							
Zinc Sulfate·$7H_2O$	8.600	8.600	10.000	2.000	10.000	10.000	0.520	8.600	8.600
Adenine Hemisulfate·$2H_2O$	30.000	80.000							
L-Ascorbic Acid									50.000
6-Benzylaminopurine									2.000
D-Biotin			0.050			0.050			
Citric Acid, Anhydrous									50.000
6-γ,γ-Dimethylallylaminopurine (2IP)	10.000	30.000							
Folic Acid			0.500			0.500			
L-Glutamine			800.000						
Glutathione (Reduced), Sodium Salt			30.000						
Glycine			2.000			2.000			2.000
Indole-3-acetic Acid	1.000	0.300							0.300
myo -Inositol	100.0	100.0	100.0	100.0		100.0			100.0
Nicotinic Acid			5.00	1.00		5.00			0.50
Pyridoxine·HCl			0.50	1.00		0.50			0.50
L-Serine			100.0						
Sucrose		30,000.0							
Thiamine·HCl	0.40	0.40	0.50	10.00		0.50			0.40
Grams of powder to prepare 1 liter	4.440	34.690	1.770	4.100	2.100	2.210	0.770	3.560	4.510
pH±0.5 at RT	4.25	4.00	4.75	4.00	4.00	4.80	4.00	4.00	3.50

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COMPONENT	**R757**	**R758**	**S806**	**S808**	**S811**	**S813**	**S816**	**T853**
Ammonium Nitrate	1,650.0	412.5						320.0
Ammonium Phosphate, Monobasic			300.00	150.00	300.00	300.00	300.00	230.00
Ammonium Sulfate								130.0
Boric Acid	6.20	1.55	5.00	2.50	5.00	5.00	5.00	6.20
Calcium Chloride, Anhydrous	333.000	83.250		75.500	151.000	151.000	151.000	113.250
Cobalt Chloride·$6H_2O$	0.0250	0.0063	0.1000	0.0500	0.1000	0.1000	0.1000	0.0250
Cupric Sulfate·$5H_2O$	0.0250	0.0063	0.2000	0.1000	0.2000	0.2000	0.2000	0.0250
Na_2 EDTA·$2H_2O$			20.00	10.00	20.00	20.00	20.00	18.65
Ferric Sodium EDTA	36.700	9.175						
Ferrous Sulfate·$7H_2O$			15.00	7.50	15.00	15.00	15.00	13.90
Magnesium Sulfate, Anhydrous	181.000	45.250	195.400	97.700	195.400	195.400	195.400	122.124
Manganese Sulfate·H_2O	16.900	4.225	10.000	5.000	10.000	10.000	10.000	16.900
Sodium Molybdate(VI)·$2H_2O$	0.250	0.063	0.100	0.050	0.100	0.100	0.100	0.250
Potassium Iodide	0.830	0.208	1.000	0.500	1.000	1.000	1.000	0.830
Potassium Nitrate	1,900.0	475.0	2,500.0	1,250.0	2,500.0	2,500.0	2,500.0	1,900.0
Potassium Phosphate, Monobasic, Anhydrous	170.0	42.5						
Zinc Sulfate·$7H_2O$	8.600	2.150	1.000	0.500	1.000	1.000	1.000	9.200
L-Ascorbic Acid	50.000							
6-Benzylaminopurine	3.000							
Citric Acid, Anhydrous	50.000							
Glycine	2.000	2.000						
Indole-3-acetic Acid	0.300							
myo -Inositol	100.0	100.0		500.0		1,000.0		
α-Naphthaleneacetic Acid		0.030						
Nicotinic Acid	0.50	0.50		2.50		5.00		
Pyridoxine·HCl	0.50	0.50		0.25		0.50		
Sucrose				10,000.0	10,000.0	10,000.0		
Thiamine·HCl	0.40	0.40		2.50		5.00		
Grams of powder to prepare 1 liter	4.510	1.180	3.050	12.100	13.200	14.210	3.200	2.880
pH±0.5 at RT	3.50	5.00	4.25	4.50	4.25	4.25	4.50	4.25

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COMPONENT	**T856**	**T861**	**T864**	**T867**	**T868**	**W863**	**W865**	**W898**
Ammonium Nitrate	1,650.0	1,650.0	1,650.0	1,650.0	320.0		700.0	
Ammonium Phosphate, Monobasic					230.00			
Ammonium Sulfate					130.0			
Boric Acid	6.20	6.20	6.20	6.20	6.20	31.00	31.00	1.50
Calcium Chloride, Anhydrous	333.000	333.000	333.000	333.000	113.250	452.880	452.880	
Calcium Nitrate								208.500
Cobalt Chloride·$6H_2O$	0.0250	0.0250	0.0250	0.0250	0.0250	0.0250	0.0250	
Cupric Sulfate·$5H_2O$	0.0250	0.0250	0.0250	0.0250	0.0250	0.2500	0.2500	0.0010
Na_2 EDTA·$2H_2O$					18.65			
Ferric Sodium EDTA	36.700	36.700	36.700	36.700		36.700	36.700	
Ferrous Sulfate·$7H_2O$					13.90			2.50
Magnesium Sulfate, Anhydrous	181.000	181.000	181.000	181.000	122.124	903.790	903.790	351.620
Manganese Sulfate·H_2O	16.900	16.900	16.900	16.900	16.900	15.160	15.160	5.310
Sodium Molybdate(VI)·$2H_2O$	0.250	0.250	0.250	0.250	0.250	0.250	0.250	
Molybdenum Trioxide								0.001
Potassium Chloride						656.790	718.670	65.000
Potassium Iodide	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.750
Potassium Nitrate	1,900.00	1,900.00	1,900.00	1,900.00	1,900.00	910.06	1,084.06	80.00
Potassium Phosphate, Monobasic, Anhydrous	170.0	170.0	170.0	170.0		270.0	270.0	
Sodium Nitrate								16.500
Sodium Phosphate Monobasic·H_2O								200.0
Zinc Sulfate·$7H_2O$	8.600	8.600	8.600	8.600	9.200	8.600	8.600	3.000
D-Biotin					0.050			
Casein, Enzymatic Hydrolysate	1,000.0	1,000.0	1,000.0	1,000.0				
Folic Acid					0.500			
Glycine	2.000	2.000	2.000	2.000	2.500			
Indole-3-acetic Acid	2.000	3.000		0.030				
Kinetin	0.200		1.000	1.000				
myo -Inositol	100.0	100.0	100.0	100.0	100.0	1,000.0	1,000.0	
Nicotinic Acid	0.50	0.50	0.50	0.50	5.00			
Pyridoxine·HCl	0.50	0.50	0.50	0.50	0.50			
Thiamine·HCl	0.40	0.40	0.40	0.40	0.50	0.40	0.40	
Grams of powder to prepare 1 liter	5.410	5.410	5.410	5.410	2.990	4.290	5.220	0.930
pH±0.5 at RT	5.50	5.50	5.50	5.50	4.25	4.75	4.75	4.75