

Supplementary tables

Table 1. Composition of different stock solutions for Murashige and Skoog (MS) basal media

Constituents	Composition	Strength	Aliquot per litre (mL)	
			FS	HS
Stock solution A (MS-A): Macronutrients		10 X	100 mL	50 mL
Supplement for MS medium: Ammonium nitrate (NH ₄ NO ₃) and potassium nitrate (KNO ₃)	35.5 g			
Calcium chloride dihydrate (CaCl ₂ .2H ₂ O)	4.4 g			
Magnesium sulfate heptahydrate (MgSO ₄ .7H ₂ O)	1.7 g			
Potassium dihydrogen phosphate (KH ₂ PO ₄)	3.7 g			
Stock solution B (MS-B): Micronutrients		100 X	10 mL	5 mL
Manganese sulfate tetrahydrate (MnSO ₄ .4H ₂ O)	2230 mg			
Zinc sulfate tetrahydrate (ZnSO ₄ .4H ₂ O)	860 mg			
Boric acid (H ₃ BO ₃)	620 mg			
Potassium iodide (KI)	83 mg			
Sodium molybdate dihydrate (Na ₂ MoOH.2H ₂ O)	2.5 mg			
Copper sulfate pentahydrate (CuSO ₄ .5H ₂ O)	2.5 mg			
Cobaltous chloride hexahydrate (CoCl ₂ .6H ₂ O)	2.5 mg			
Stock solution C (MS-C): Fe-EDTA		100 X	10 mL	5 mL
Ferrous sulfate heptahydrate (FeSO ₄ .7H ₂ O)	278 mg			
Disodium ethylenediaminetetraacetate dihydrate (Na ₂ EDTA.2H ₂ O)	373 mg			
Stock solution D (MS-D): Vitamins		100 X	10 mL	5 mL
Glycine	20 mg			

Nicotinic acid	5 mg			
Pyridoxine hydrochloride	5 mg			
Thiamine hydrochloride	1 mg			
Myo-Inositol	1000 mg			
Sucrose	30 g			
Agar	6 g			

FS - Full strength, **HS**- Half strength

Table 2. Composition of different stock solutions for Orchimax basal media

Constituents	Concentration	Strength	Aliquot per litre (mL)	
			FS	HS
Stock solution A (OM-A): Macronutrients				
Supplement for MS medium: Ammonium nitrate (NH ₄ NO ₃) and potassium nitrate (KNO ₃)	1775 mg	10 X	100 mL	50 mL
Calcium chloride dihydrate (CaCl ₂ .2H ₂ O)	166 mg			
Magnesium sulfate heptahydrate (MgSO ₄ .7H ₂ O)	90.35 mg			
Potassium dihydrogen phosphate (KH ₂ PO ₄)	85 mg			
Stock solution B (OM-B): Micronutrients				
Manganese sulfate tetrahydrate (MnSO ₄ .4H ₂ O)	0.125 mg	100 X	10 mL	5 mL
Zinc sulfate tetrahydrate (ZnSO ₄ .4H ₂ O)	5.30 mg			
Boric acid (H ₃ BO ₃)	3.10 mg			
Potassium iodide (KI)	0.415 mg			
Sodium molybdate dihydrate (Na ₂ MoOH.2H ₂ O)	0.125 mg			
Copper sulfate pentahydrate (CuSO ₄ .5H ₂ O)	0.0125 mg			

Cobaltous chloride hexahydrate (CoCl ₂ ·6H ₂ O)	0.0125 mg			
Iron sodium ethylenediaminetetraacetic acid	36.70 mg			
Stock solution C (OM-C): Vitamins				
Nicotinic acid	1 mg	100	10 mL	5 mL
Pyridoxine hydrochloride	1 mg			
Thiamine hydrochloride	1 mg			
Myo-inositol	100 mg			
Organic additives				
Tryptone		2 g		
Activated charcoal		2 g		
Sucrose		20 g		
2-(N-Morpholino)ethanesulfonic acid (MES) buffer		1 g		
Agar		6 g		

FS – Full strength, HS- Half strength

Table 3. Composition of different stock solutions for Lindeman basal media

Constituents	Composition	Strength	Aliquot per litre (mL)	
Stock solution A (LM-A): Macronutrients			FS	HS
Ammonium sulphate ((NH ₄) ₂ SO ₄)	1000 mg	10 X	100 mL	50 mL
Calcium nitrate (Ca(NO ₃) ₂)	347.20 mg			
Magnesium sulphate (MgSO ₄)	58.98 mg			
Potassium phosphate monobasic (KH ₂ PO ₄)	135 mg			
Potassium chloride (KCl)	1050 mg			
Stock solution B (LM-B): Micronutrients			10 mL	5 mL
Aluminum chloride hexahydrate	0.56 mg	100 X		
Boric acid	1.01 mg			
Copper sulphate pentahydrate	0.02 mg			
Ferric citrate	4.40 mg			
Manganese sulphate monohydrate	0.05 mg			
Nickle chloride hexahydrate	0.03 mg			
Potassium iodide	0.10 mg			
Zinc sulphate heptahydrate	0.57 mg			
Stock solution C (LM-C): Vitamins			10 mL	5 mL
Glycine	2 mg	100 X		
Nicotinic acid	1 mg			
Pyridoxine hydrochloride	1 mg			

Thiamine hydrochloride	10 mg			
Myo- inositol	100 mg			
Sucrose	20 gm			
Agar	6 gm			

FS – Full strength, **HS**- Half strength