

P727

Orchid Seed Sowing Medium Contains Agar, Without Charcoal

Properties

Form:	Powder
Appearance:	Off-white to Cream Powder
Application:	Orchid Culture
Solubility:	Hot Water
Typical Working Concentration:	31.74 g/L
Storage Temp:	2 – 6° C
Storage Temp of Stock Solution:	Preparation of concentrated solutions is not recommended as insoluble precipitates may form.
Other Notes:	The pH of this medium should be adjusted prior to sterilization.

Formula

Ammonium Nitrate	412.5
Boric Acid	1.65
Calcium Chloride, Anhydrous	83
Cobalt Chloride•6H ₂ O	0.0063
Cupric Sulfate•5H ₂ O	0.0063
Na ₂ EDTA•2H ₂ O	18.65
Ferrous Sulfate•7H ₂ O	13.93
Magnesium Sulfate, Anhydrous	75.18
Manganese Sulfate•H ₂ O	4.23
Molybdic Acid, Sodium Salt•2H ₂ O	0.0625
Potassium Iodide	0.2075
Potassium Nitrate	475

Potassium Phosphate, Monobasic	42.5
Zinc Sulfate•7H ₂ O	2.65
Agar	8000
MES (Free Acid)	500
myo-Inositol	100
Nicotinic Acid (Free Acid)	1
Peptone from Meat	2000
Pyridoxine•HCl	1
Sucrose	20,000
Thiamine•HCl	10

Application Notes

Plant Tissue Culture Tested

Plant species: Phaleonopsis, Epiphytic orchids

This medium is a modification of P723 Orchid Seed Sowing Medium, except charcoal has been eliminated, and is best suited for species that do not produce phenolics.

This medium may be used for some terrestrial orchid species by preparing the medium at ½ strength and supplementing it with 50 ml of coconut water per liter. Approximately 4 g/L of agar should also be added.

Revised 3/2007