

## P793 Orchid Multiplication Medium Without Charcoal and Agar

### Properties

Form:	Powder
Appearance:	White to Yellow powder
Application:	Orchid Culture
Solubility:	Water
Typical Working Concentration:	25.30 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:	pH = 4.75 – 5.75

### Formula

Ammonium Nitrate	825	Potassium Phosphate, Monobasic	85
Boric Acid	3.1	Zinc Sulfate•7H <sub>2</sub> O	5.3
Calcium Chloride, Anhydrous	166	6-Benzylaminopurine (BA)	2.0
Cobalt Chloride•6H <sub>2</sub> O	0.0125	MES (Free Acid)	1000
Cupric Sulfate•5H <sub>2</sub> O	0.0125	myo-Inositol	100
Na <sub>2</sub> EDTA•2H <sub>2</sub> O	37.3	-Naphthaleneacetic Acid	0.5
Ferrous Sulfate•7H <sub>2</sub> O	27.85	Nicotinic Acid (Free Acid)	0.5
Magnesium Sulfate, Anhydrous	90.35	Peptone from Meat	2000
Manganese Sulfate•H <sub>2</sub> O	8.45	Pyridoxine•HCl	0.5
Molybdic Acid, Sodium Salt•2H <sub>2</sub> O	0.125	Sucrose	20,000
Potassium Iodide	0.415	Thiamine•HCl	1
Potassium Nitrate	950		

### Application Notes

Plant Tissue Culture Tested

Plant species: Many epiphytic orchid species

This medium is a modification of our Orchid Multiplication Medium (P723) by the deletion of charcoal and agar. It was originally developed for the multiplication of plantlets from Phaleonopsis flower stem nodal segments. This medium when used in combination with Orchid Maintenance/ Replate Medium (P668 or P748) provides a complete plant propagation cycle. This medium has been used for protocorm production of Cattley and Cymbidium species.

The pH of this medium should be adjusted after adding a gelling agent and prior to sterilization.

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