

**M579**  
**Mitra Replate/Maintenance**  
**Medium**

**Properties**

Form:	Powder
Appearance:	Gray to Black Powder
Application:	Orchid Culture
Solubility:	Partially Soluble in Water
Typical Working Concentration:	29.82 g/L
Storage Temp:	2 - 6° C
Other Notes:	Preparation of concentrated solutions is not recommended as insoluble precipitates may form.

**Formula (mg/L)**

Ammonium Sulfate	100	Sodium Phosphate, Monobasic	150
Boric Acid	0.6	Zinc Sulfate, Heptahydrate	0.05
Calcium Nitrate	100	Agar	7,000
Cobalt Nitrate, Hexahydrate	0.05	d-Biotin	0.05
Cupric Sulfate, Pentahydrate	0.05	Charcoal, Activated	2,000
EDTA, Disodium, Dihydrate	22.3	Folic Acid	0.3
Ferrous Sulfate, Heptahydrate	16.7	Nicotinic Acid	1.25
Magnesium Sulfate, Anhydrous	250	Pyridoxine•HCl	0.3
Manganese Chloride, Tetrahydrate	0.4	Riboflavin	0.05
Molybdic Acid, Sodium Salt, Dihydrate	0.05	Sucrose	20,000
Potassium Iodide	0.03	Thiamine•HCl	0.3
Potassium Nitrate	180		

**Application Notes**

Orchid Culture

Contains the macro- and micro-nutrients, vitamins, and supplements described by Mitra et al. (1976). Also contains Sucrose and Agar.

Has been used for culture of *Vanda* sp., *Dendrobium* sp., and *Cymbidium* sp.

**References**

Mitra et al., 1976. Indian Journal of Experimental Biology. 14:350-351.