

B142
BM-2 Terrestrial Orchid Medium

Properties:

Form:	Powder
Appearance:	White to Cream
Application:	Plant Tissue Culture
Solubility:	Fully Soluble in Hot Water, Partially Soluble in Cold Water
Typical Working Concentration:	27.22 g/L
Storage Temp:	2-8°C
Storage Temp of Stock Solution:	Preparation of concentrated solutions is not recommended as insoluble precipitates may form.
Other Notes:	Same formulation as B141 with 0.2 mg/L BA; contains agar. Unadjusted pH = 5.0 – 6.0 BM-2 differs from BM Medium in that it (BM-2) has no inorganic nitrogen and it contains hydrolyzed casein, L-glutamine, and 6-Benzylaminopurine (BA).

Formula [mg/L]:

Boric Acid	10
Cobalt Chloride•6H ₂ O	0.025
Cupric Sulfate•5H ₂ O	0.025
Na ₂ EDTA•2H ₂ O	37.25
Ferrous Sulfate•7H ₂ O	27.85
Magnesium Sulfate, Anhydrous	100
Manganese Sulfate•H ₂ O	25
Molybdcic Acid (Sodium Salt) •2H ₂ O	0.25
Potassium Phosphate, Monobasic	300
Zinc Sulfate•7H ₂ O	10
Agar	6,000
6-Benzylaminopurine (BA)	0.2

D-Biotin	0.05
Casein, Enzymatic Hydrolysate	500
Folic Acid	0.5
L-Glutamine	100
Glycine (Free Base)	2
myo-Inositol	100
Nicotinic Acid (Free Acid)	5
Pyridoxine•HCl	0.5
Sucrose	20,000
Thiamine•HCl	0.5

Application Notes:

Plant Tissue Culture Tested

Especially suited for terrestrial orchids *Paphiopedilum* and *Phragmipedium*.

References:

Van Waes and Debergh (1986). In vitro germination of some Western European orchids. *Physiol. Plant.* 67:253-261.

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