PhytoTech LABS

Product Information Sheet

T842
Terrestrial (Cypripedium) Orchid Medium w/ Agar & w/o Ammonium Nitrate 600 mg/L Calcium Nitrate + 200 mg/L Casein

Properties:

Form:	Powder
Appearance:	White to Yellow powder
Application:	Orchid Culture
Solubility:	Partially Soluble in Water
Typical Working Concentration:	27.44 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:	Contains a modification of the macro- and micronutrients, glucose, and agar as described by Steele (1996) Contains 600 mg/L Calcium Nitrate and 200 mg/L Casein Without Ammonium Nitrate pH = 4.75 – 5.75

Formula [mg/L]:

Ammonium Citrate	19
Boric Acid	0.5
Calcium Nitrate	600
Cupric Sulfate•5H_2O	0.025
Ferric Ammonium Citrate	25
Magnesium Sulfate, Anhydrous	97.69
Manganese Sulfate•H_2O	1.54
Molybdic Acid, Sodium Salt•2H_2O	0.02
Potassium Chloride	100

Potassium Iodide	0.1
Potassium Nitrate	200
Potassium Phosphate, Monobasic	200
Zinc Sulfate•7H_2O	0.5
Agar	6000
Casein, Enzymatic Hydrolysate	200
D-Glucose	20,000

Application Notes:

Plant Tissue Culture Tested
Plant species: Cypripedium and other terrestrial orchid species
Developed for germination and growth *Cypripedium reginae* (Harvais 1982). Ammonium nitrate is omitted so that it can be supplemented at 500-1000 mg/L with other *Cypripedium* sp. (Steele 1996).

References:

Harvais G (1982) An improved culture medium for growing the orchid Cypripedium reginae axenically. *Can. J. Bot.* 60(12):2547-2555

Steele, WK. (1996). Large Scale Seedling Production of North American Cypripedium Species. In: C. Allen, Editor, North American Native Terrestrial Orchids. Propagation and Production Conf. Proc., May 16 & 17, 1996. pp 11-26.

PhytoTech Labs Inc.
14610 W 106th St. Lenexa, KS 66215
Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442
phytotechlab.com