

T8133

**Terrestrial (Cypripedium) Orchid Medium
w/o Agar or 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: 21.44 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: Contains a modification of the macro- and micronutrients, and glucose as described by Steele (1996)
 Contains 600 mg/L Calcium Nitrate and 200 mg/L Casein
 Without Ammonium Nitrate
 pH = 5.0 – 6.0

Formula [mg/L]:

Ammonium Citrate	19
Boric Acid	0.5
Calcium Nitrate	600
Cupric Sulfate•5H ₂ O	0.025
Ferric Ammonium Citrate	25
Magnesium Sulfate, Anhydrous	97.68
Manganese Sulfate•H ₂ O	1.54
Molybdc Acid, Sodium Salt•2H ₂ O	0.02

Potassium Chloride	100
Potassium Iodide	0.1
Potassium Nitrate	200
Potassium Phosphate, Monobasic	200
Zinc Sulfate•7H ₂ O	0.5
Casein, Enzymatic Hydrolysate	200
D-Glucose	20000

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.

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