Product Information Sheet

K400
Knudson C Orchid Medium
Morel Modification

Properties

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	22.0 g/L
Storage Temp:	2-6°
Storage Temp of Stock Solution:	Preparation of concentrated solutions is not recommended as insoluble precipitates may form.
Other Notes:	Contains the components as described Knudson (1946). pH = 4.0 – 5.0

Formula

Ammonium Nitrate	500
Ammonium Sulfate	500
Calcium Nitrate	347.2
Ferrous Sulfate•$7H_2O$	25
Magnesium Sulfate, Anhydrous	122.13
Manganese Sulfate•H_2O	5.682
Potassium Chloride	250
Potassium Phosphate, Monobasic	250
Sucrose	20,000

Application Notes

Plant Tissue Culture Tested
Plant species: Cymbidium
This medium was originally developed for the germination of Cymbidium orchid seeds.

References

Knudson, L. 1946. A new nutrient solution for germination of orchid seed. Amer. Orchid Soc. Bull. 15:214-217.

Morel, GM. 1965. Clonal propagation of orchids by meristem culture. Cymb. Soc. News 20:3-11

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