



Product Information Sheet

K400 Knudson C Orchid Medium Morel Modification

Properties

Form:	Powder
Appearance:	White to Yellow
Application:	Plant Tissue Culture
Solubility:	Soluble in Water
Typical Working Concentration:	22.0 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:	Morel modification with the macro- and micronutrients and sucrose as described by Knudson (1946). pH = 4.0 – 5.0. Plant Tissue Culture Tested

Formula

	(mg/L)
Ammonium Nitrate	500
Ammonium Sulfate	500
Calcium Nitrate	347.2
Ferrous Sulfate•7H ₂ O	25
Magnesium Sulfate, Anhydrous	122.13

Manganese Sulfate•H ₂ O	5.68
Potassium Chloride	250
Potassium Phosphate, Monobasic	250
Sucrose	20,000

Application Notes

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