

Lindemann Orchid Basal Medium

Properties

Form:	Powder
Appearance:	White to Off-white Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	22.71 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 the macro- and micronutrients as described by Lindemann et al. (1970); contains Sucrose and Vitamins.

Formula

Aluminum Chloride•6H ₂ O	0.0561	Potassium Iodide	0.099
Ammonium Sulfate	1000	Potassium Phosphate, Monobasic	135
Boric Acid	1.014	Zinc Sulfate•7H ₂ O	0.565
Calcium Nitrate	347.2	Glycine (Free Base)	2
Cupric Sulfate•5H ₂ O	0.019	myo-Inositol	100
Ferric Citrate	4.4	Nicotinic Acid (Free Acid)	1
Magnesium Sulfate, Anhydrous	58.62	Pyridoxine•HCl	1
Manganese Sulfate•H ₂ O	0.0515	Sucrose	20,000
Nickel Chloride•6H ₂ O	0.0312	Thiamine•HCl	10
Potassium Chloride	1050		

Application Notes

Plant Tissue Culture Tested
A complete orchid replate and seed sowing medium.

References

Lindemann EG, JE Gunckel, and OW Davidson. 1970. Meristem culture of Cattleya. Amer. Orchid Soc. Bull. 39:1002-1004.

Revised 2/2007