

Ichihashi New Phalaenopsis (NP) Medium

Properties

Form:	Powder
Appearance:	White to Cream Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	25.35 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 Ichihashi (1992); modified to contain 82.0 mg/L Ammonium Nitrate.

Formula

Ammonium Nitrate	82.0	Potassium Nitrate	424.0
Ammonium Sulfate	303.9	Potassium Phosphate, Monobasic	462.7
Boric Acid	3.1	Zinc Sulfate•7H ₂ O	4.3
Calcium Nitrate	637.6	Gellan Gum, CultureGel – Biotech	3000
Cobalt Chloride•6H ₂ O	0.0125	Glycine (Free Base)	2.0
Cupric Sulfate•5H ₂ O	0.0125	myo-Inositol	100.0
Na ₂ EDTA•2H ₂ O	37.3	Nicotinic Acid (Free Acid)	0.5
Ferrous Sulfate•7H ₂ O	27.8	Pyridoxine•HCl	0.5
Magnesium Nitrate	256.4	Sucrose	20,000
Manganese Sulfate•H ₂ O	11.2	Thiamine•HCl	0.1
Molybdic Acid (Sodium Salt) •2H ₂ O	0.125		
Potassium Iodide	0.415		

Application Notes

Plant Tissue Culture Tested

Plant species: *Phalaenopsis* spp.

This medium was originally developed for the stem propagation of *Phalaenopsis*.

References

Ichihashi, S. 1992. Abstr. of IPPS Toyohashi 98.

Revised 2/2007