

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