

## O156

### Orchid Maintenance Medium Contains Banana and Charcoal, Without Agar

#### Properties

|                                 |  |
|---------------------------------|--|
| Form:                           | Powder   |
| Appearance:                     | Gray powder  |
| Application:                    | Orchid Culture   |
| Solubility:                     | Partially Soluble in Water   |
| Typical Working Concentration:  | 57.31 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:                    | pH = 4.5 – 5.5   |

#### Formula

|  |        |
|--|--------|
| Ammonium Nitrate                               | 825    |
| Boric Acid                                     | 3.1    |
| Calcium Chloride, Anhydrous                    | 166    |
| Cobalt Chloride•6H <sub>2</sub> O              | 0.0125 |
| Cupric Sulfate•5H <sub>2</sub> O               | 0.0125 |
| Na <sub>2</sub> EDTA•2H <sub>2</sub> O         | 37.3   |
| Ferrous Sulfate•7H <sub>2</sub> O              | 27.85  |
| Magnesium Sulfate, Anhydrous                   | 90.35  |
| Manganese Sulfate•H <sub>2</sub> O             | 8.45   |
| Molybdic Acid (Sodium Salt) •2H <sub>2</sub> O | 0.125  |
| Potassium Iodide                               | 0.415  |
| Potassium Nitrate                              | 950    |

|                                |       |
|--------------------------------|-------|
| Potassium Phosphate, Monobasic | 85    |
| Zinc Sulfate•7H <sub>2</sub> O | 5.3   |
| Activated Charcoal             | 2000  |
| Banana Powder                  | 30000 |
| MES (Free Acid)                | 1000  |
| myo-Inositol                   | 100   |
| Nicotinic Acid (Free Acid)     | 1     |
| Peptone from Meat              | 2000  |
| Pyridoxine•HCl                 | 1     |
| Sucrose                        | 20000 |
| Thiamine•HCl                   | 10    |

#### Application Notes

Plant Tissue Culture Tested

Plant species: Epiphytic orchid species

This medium is a modification of our Orchid Maintenance/Replate Medium (P748). It lacks a gelling agent to permit its use in a liquid culture system. This medium contains banana powder to promote growth and rooting. The pH of this medium should be adjusted after adding the gelling agent and prior to sterilization

Revised 2/2007