



## Product Information Sheet

### H435 Hosta Initiation/ Multiplication Medium Stage I/II Medium

#### Properties

Form: Powder  
Appearance: White to Yellow  
Application: Plant Tissue Culture  
Solubility: Partially Soluble in Cold Water. Fully Soluble in Hot/Boiling Water.  
Typical Working Concentration: 43.39 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 Murashige and Skoog (1962) and the vitamins described by Linsmaier and Skoog (1965). Also contains agar and sucrose. Plant Tissue Culture Tested.

#### Formula (mg/L)

Ammonium Nitrate	1650
Boric Acid	6.2
Calcium Chloride, Anhydrous	332.2
Cobalt Chloride•6H <sub>2</sub> O	0.025
Cupric Sulfate•5H <sub>2</sub> O	0.025
Disodium EDTA •2H <sub>2</sub> O	37.26
Ferrous Sulfate•7H <sub>2</sub> O	27.8
Magnesium Sulfate, Anhydrous	180.7
Manganese Sulfate•H <sub>2</sub> O	16.9
Molybdic Acid (Sodium Salt)• 2H <sub>2</sub> O	0.25
Potassium Iodide	0.83
Potassium Nitrate	1900

Potassium Phosphate, Monobasic	300
Sodium Phosphate, Monobasic	170
Zinc Sulfate•7H <sub>2</sub> O	8.6
Adenine Hemisulfate	160
Agar	8000
6-Benzylaminopurine (BA)	2
Casein, Enzymatic Hydrolysate	500
Glycine (Free Base)	2
myo-Inositol	100
α-Naphthaleneacetic Acid	0.5
Sucrose	30,000
Thiamine•HCl	0.4

#### Application Notes

Plant species: Hosta. Excellent stage I and II medium for Hosta cultures.

#### References

Murashige, T and F Skoog. 1962. A revised medium for rapid growth and bio-assays with tobacco tissue cultures. *Physiologia Plantarum*. 15: 473-497.  
Linsmaier, EM and F Skoog. 1965. Organic growth factor requirements of tobacco tissue cultures. *Physiol. Plant*. 18: 100-127.

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