

# **PhytoTechnology Laboratories®**

# **Product Information Sheet**

L452

# **Linsmaier & Skoog Modified Basal Medium** w/ 30 g/L Sucrose & 7 g/L Agar pH Adjusted and Buffered

Synonym: Murashige & Skoog (MS) Medium with Minimal Organics (MSMO)

**Properties** 

Form: Powder

Appearance: White to Yellow Application: Plant Tissue Culture Solubility: Soluble in Water

Typical Working

42.53 q/L

Concentration: Storage Temp: 2-6 °C

Storage Temp of Preparation of concentrated solutions is not recommended as insoluble

Stock Solution: precipitates may form.

Other Notes: Contains the macro- and micronutrients and vitamins as described by

Linsmaier and Skoog (1965).

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
Na <sub>2</sub> EDTA•2H <sub>2</sub> O	37.26
Ferrous Sulfate•7H <sub>2</sub> O	27.8
Magnesium Sulfate	180.7
Manganese Sulfate•H₂O	16.9
Molybdic Acid (Sodium Salt) •2H <sub>2</sub> O	0.25
Potassium Hydroxide	100

Potassium lodide	0.83
Potassium Nitrate	1900
Potassium Phosphate, Monobasic	170
Zinc Sulfate•7H <sub>2</sub> O	8.6
Agar	7000
MES (Free Acid)	1000
myo-Inositol	100
Sucrose	30,000
Thiamine•HCl	0.4

### **Application Notes**

Plant Tissue Culture Tested

This medium is the standard Murashige & Skoog (MS) basal salts supplemented with Linsmaier and Skoog vitamins. The medium is pH adjusted and buffered with MES. Under most circumstances, adjusting the pH is not necessary; simply add water and any desired PGR's or other supplements. The addition of MES will help to stabilize pH fluctuations during media preparation and culture.

### **India Contact**



# **Product Information Sheet**

#### References

Linsmaier, EM and F Skoog. 1965. Organic growth factor requirements of tobacco tissue culture. Physiol. Plant. 18:100-127.

# **India Contact**

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