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 Concentration:	42.53 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 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_2O	0.025
Cupric Sulfate•5H_2O	0.025
Na_2 EDTA•2H_2O	37.26
Ferrous Sulfate•7H_2O	27.8
Magnesium Sulfate	180.7
Manganese Sulfate•H_2O	16.9
Molybdic Acid (Sodium Salt) •2H_2O	0.25
Potassium Hydroxide	100

Potassium Iodide	0.83
Potassium Nitrate	1900
Potassium Phosphate, Monobasic	170
Zinc Sulfate•7H_2O	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.

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References

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

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