

Product Information Sheet

M5615 Murashige & Skoog (MS) Basal Medium Solution w/ Vitamins, Glucose and Sucrose (1x)

Synonym: MS Medium

Properties

Form:	Liquid
Appearance:	Clear, Colorless to Light Yellow
Application:	Plant Tissue Culture
Solubility:	Miscible with Water
Typical Working Concentration:	1x
Storage Temp:	2-6°C
Other Notes:	Contains the macro- and micronutrients and vitamins as described by Murashige and Skoog (1962) as well as glucose and sucrose. Sterile Filtered

Formula (mg/L)

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

Potassium Nitrate	1900
Potassium Phosphate, Monobasic	170
Zinc Sulfate•7H ₂ O	8.6
Glycine (Free Base)	2
myo-Inositol	100
Nicotinic Acid (Free Acid)	0.5
Pyridoxine•HCl	0.5
Thiamine•HCl	0.1
Sucrose	15,000
Glucose	15,000

Application Notes

Plant Tissue Culture Tested

Plant species: This medium is used for a numerous species.

References

Murashige, T and F Skoog. 1962. A revised medium for rapid growth and bioassays with tobacco tissue cultures. *Physiol. Plant.* 15: 473-497.

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