

Murashige & Skoog Basal Medium with Vitamins

Product ID: **M519**

Introduction

Description: Contains the macro- and micronutrients, and vitamins as described by Murashige & Skoog (1962).

Product Information

Solubility	Water
Physical Form	Solid
Storage Temp.	2-6 °C
Grams of powder to prepare 1 Liter	4.43
Other Notes	Plant Tissue Culture Tested
UPC / SKU	M519



M519 Murashige & Skoog (MS) Basal Medium w/ Vitamins

Synonym: MS Medium

PROPERTIES

- Form:** Fine to Fluffy Powder
- Appearance:** White to Yellow Powder
- Application:** Plant Tissue Culture
- Solubility:** Water
- Typical Working Concentration:** 4.43 g/L
- Storage Temp:** 2-6°
- 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 Murashige and Skoog (1962). pH = 3.5-4.5

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
Molybdic 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

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

India Contact:



Life Technologies (India) Pvt Ltd.

306, Agarwal City Mall, opposite M2K Pitampura, Delhi-110034 (India)

Tel # +91-11-4220-8000; 4220-8111; 4220-8222 Fax# +91-11-4220-8444, Mobile# +91-98105-21400,

Toll Free # 1800-120-2434

Email - customerservice@lifetechindia.com | customerservice@atzlabs.com

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