

### Product Information Sheet

### M535

## Murashige & Skoog (MS) Modified Basal Medium

#### Properties

Form:	Fine to Fluffy Powder
Appearance:	White to Off-white Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	4.51 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 as described by Murashige and Skoog (1962) and the vitamins described by Linsmaier and Skoog (1965). Also contains 80 mg/L Adenine Hemisulfate. pH = 3.25 – 4.25

#### 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	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	170
Zinc Sulfate•7H <sub>2</sub> O	8.6
Adenine Hemisulfate	80
myo-Inositol	100
Thiamine•HCl	0.4

#### Application Notes

Plant Tissue Culture Tested

Plant species: Spathiphyllum, ferns, *Ficus* spp

This medium is also used for the micropropagation of numerous additional tropical foliage plants.

#### 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, Road 44, Pitampura, Delhi - 110034 (India)

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

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

## Product Information Sheet

---

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

Revised 3/2007

### India Contact

---

#### Life Technologies (India) Pvt Ltd.

306, Agarwal City Mall, Road 44, Pitampura, Delhi - 110034 (India)

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

Email - [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) | [customerservice@atzlabs.com](mailto:customerservice@atzlabs.com)