

### Product Information Sheet

## M508 Murashige Modified Fern Multiplication Basal Medium

#### Properties

Form:	Fine to Fluffy Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	4.66 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 (mg/L): 255 Sodium Phosphate Monobasic, 2.0 Kinetin, 0.1 NAA, and Ferric Sodium EDTA in place of Ferrous Sulfate and Disodium EDTA. pH = 4.25 – 5.25

#### Formula (mg/L)

Ammonium Nitrate	1650
Boric Acid	6.2
Calcium Chloride, Anhydrous	333
Cobalt Chloride•6H <sub>2</sub> O	0.025
Cupric Sulfate•5H <sub>2</sub> O	0.025
Ferric Sodium EDTA	36.7
Magnesium Sulfate, Anhydrous	181
Manganese Sulfate•H <sub>2</sub> O	16.9
Molybdc Acid (Sodium Salt)• 2H <sub>2</sub> O	0.25
Potassium Iodide	0.83

Potassium Nitrate	1900
Potassium Phosphate, Monobasic	170
Sodium Phosphate, Monobasic	255
Zinc Sulfate•7H <sub>2</sub> O	8.6
Kinetin	2.0
myo-Inositol	100
α-Naphthaleneacetic Acid	0.1
Thiamine•HCl	0.4

#### Application Notes

Plant Tissue Culture Tested  
Plant species: Ferns

#### 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)