

Product Information Sheet

N616 Nitsch & Nitsch Basal Medium w/Vitamins

Properties

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	2.21 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 Nitsch and Nitsch (1969)

Formula (mg/L)

Ammonium Nitrate	720
Boric Acid	10
Calcium Chloride, Anhydrous	166
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	90.372
Manganese Sulfate•H ₂ O	18.9
Molybdic Acid (Sodium Salt) •2H ₂ O	0.25
Potassium Nitrate	950

Potassium Phosphate, Monobasic	68
Zinc Sulfate•7H ₂ O	10
D-Biotin	0.05
Folic Acid	0.5
Glycine (Free Base)	2
myo-Inositol	100
Nicotinic Acid (Free Acid)	5
Pyridoxine•HCl	0.5
Thiamine•HCl	0.5

Application Notes

Plant Tissue Culture Tested

Plant species: Nicotiana (tobacco)

This medium was originally developed for the initiation and culture of haploid plants from tobacco microspores. Nitsch & Nitsch has become a popular medium for the haploid culture of many plant species.

References

Nitsch, JP and C Nitsch. 1969. Haploid plants from pollen grains. Science 163: 85-87.

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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