

## Product Information Sheet

### N613 Nitsch & Nitsch Basal Salt Mixture

#### Properties

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	2.10 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 as described by Nitsch and Nitsch (1969) pH = 3.5 – 4.5

#### Formula (mg/L)

Ammonium Nitrate	720
Boric Acid	10
Calcium Chloride, Anhydrous	166
Cupric Sulfate•5H <sub>2</sub> O	0.025
Na <sub>2</sub> EDTA•2H <sub>2</sub> O	37.26
Ferrous Sulfate•7H <sub>2</sub> O	27.8
Magnesium Sulfate, Anhydrous	90.372

Manganese Sulfate•H <sub>2</sub> O	18.9
Molybdic Acid (Sodium Salt)•2H <sub>2</sub> O	0.25
Potassium Nitrate	950
Potassium Phosphate, Monobasic	68
Zinc Sulfate•7H <sub>2</sub> O	10

#### 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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