Product Information Sheet

N479
NLN Basal Medium

Properties

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	1.77 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 organic constituents as described by Lichter (1982).

Formula (mg/L)

Boric Acid	10
Calcium Nitrate (dried)	347
Cobalt Chloride•6H_2O	0.025
Cupric Sulfate•5H_2O	0.025
Ferric Sodium EDTA	36.7
Magnesium Sulfate, Anhydrous	61
Manganese Sulfate•H_2O	18.95
Molybdic Acid (Sodium Salt)•2H_2O	0.25
Potassium Nitrate	125
Potassium Phosphate, Monobasic	125
Zinc Sulfate•7H_2O	10

D-Biotin	0.05
Folic Acid	0.5
L-Glutamine	800
Glutathione	30
Glycine (Free Base)	2
myo-Inositol	100
Nicotinic Acid (Free Acid)	5
Pyridoxine•HCl	0.5
L-Serine	100
Thiamine•HCl	0.5

Application Notes

Plant Tissue Culture Tested
Plant species: *Brassica napus*
This medium was derived from that described by Nitsch & Nitsch and was developed to support the initiation and growth of haploid plants from anther and pollen cultures of *Brassica napus*. This medium contains the equivalent of 500 mg/L calcium nitrate tetrahydrate as described in the original formulation.

References

Lichter, R. 1981. Z. Pflanzenphysiol. 103: 119.
Lichter, R. 1982. Z. Pflanzenphysiol. 105: 427

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