



Product Information Sheet

N608 Nitsch & Nitsch Vitamin Powder (1000x)

Properties

- Form: Powder
- Appearance: White to Off-white Powder
- Application: Plant Tissue Culture
- Solubility: Water
- Typical Working Concentration: 10.86 g/ 100 mL produces a 1000X concentrate; 1 mL/ L of medium when dissolved in 1N KOH and water to the volume indicated on the package. See instructions below.
- Storage Temp: 2-6° C
- Storage Temp of Stock Solution: 2-6° C
- Other Notes: Contains the vitamins as described by Nitsch and Nitsch (1969).
Instructions for dissolving the powder: Add 5 mL 1N KOH or NaOH per 100 mL package or approx 13 mL per 250 mL package. Stir till suspension dissolves; add additional base if necessary. Bring to volume with water. This product can be filter sterilized and stored in the refrigerator. Alternatively, it can be stored in aliquots in the freezer for long-term. Freezer storage of non-sterile solutions is preferred as vitamins are subject to breakdown by bacteria and fungi. Myo-Inositol may precipitate out of solution when cold; warming with occasional agitation will redissolved the precipitate.

Formula	(mg/L)
D-Biotin	50
Folic Acid	500
Glycine (Free Base)	2000
myo-Inositol	100,000

Formula (cont.)	(mg/L)
Nicotinic Acid (Free Acid)	5000
Pyridoxine•HCl	500
Thiamine•HCl	500

Application Notes

Plant Tissue Culture Tested

References

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

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