



# **Product Specification**

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# **Technical Information**

### Nitsch & Nitsch Vitamins Solution (1000X)

## Product Code: PL1023

Composition**	
Ingredients	mg/Litre
myo - Inositol	100.00
Thiamine hydrochloride	0.50
Pyridoxine hydrochloride	0.50
Nicotinic acid (Free acid)	5.00
Folic acid	0.50
Biotin	0.05
Glycine (Free base)	2.00
TOTAL	0.11 gm/litre

# Principle And Interpretation

Nitsch & Nitsch vitamins (1000X) is a filter sterilized stock solution. The stock contains vitamins as described by Nitsch & Nitsch. Add 1ml per litre of vitamins stock solution to the prepared medium to achieve the desired concentration.

### Directions

Measure out approximately 600ml of distilled water. While stirring the water, add 1ml of vitamins solution. Add desired heat stable supplements prior to autoclaving. Adjust the medium to the desired pH using 1N HCl/NaOH. Make up the final volume to 1000ml with distilled water. Sterilize the medium by autoclaving at 15 lbs or 121°C for 15 minutes. Cool the autoclaved medium to 45°C before adding the filter sterilized heat labile supplements. Dispense the desired amount of medium in sterile culture vessels.

Central Drug House (P) Ltd. | Corp. Office : 7/28, Vardaan House, Darya Ganj, New Delhi - 110002 (INDIA), Phone : +91-11-49404040 (100 Lines) Mfg Unit : Plot No. D-2/CH/9, Dahej-2, GIDC, Dist. Bharuch - 392130 (Gujarat), E-mail : sales@cdhfinechemical.com

# Plant Tissue Culture



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opearance erility	: No bacter	: Colourless to yellow, clear solution. : No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.		
l at 25°C Iltural Response :	: 5.7 ±0.5 of	f 50ml vitamins stock solution.		
Iltural condition :				
<ul> <li>Incubation p</li> <li>Relative hur</li> <li>Temperatur</li> </ul>	nidity	: 5 weeks : 60% ± 2% : 22°C ± 2°C : 16:8		
Cell Line		Types Of Culture	Results	
<i>Musa</i> species		Shoot culture	No structural deformity observed No necrotic tissues, Actively growing shoots, No toxicity to shoots	
Daucus species		Callus culture	No necrotic tissues, Actively growing callus, No toxicity to callus	

## Storage and Shelf Life

Dehydrated macroelements powder is extremely hygroscopic and should be protected from atmospheric moisture. If possible, the entire content of each bottle should be used immediately after opening or else the unused portion should be stored in a desiccator and refrigerated at 2-8°C. Use before the expiry date.

#### Further Reading

1. Nitsch J.P. & Nitsch C., Science, (1969), 163, 85 - 87

### **Disclaimer**:

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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