



## **Product Specification**

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## **Technical Information**

### Vacin & Went Macroelements

## Product Code: TS2091

Application: Vacin & Went macroelements has been specially formulated for the *in vitro* culture of orchid species. Potassium nitrate serves as the source of nitrate. Ammonium sulphate and magnesium sulphate serves as the sources of sulphate.

## Methodology

Suspend 1.60 grams of dehydrated macroelements powder<sup>#</sup> in 600ml of distilled water. Apply constant gentle stirring to the solution till the powder dissolves completely. 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 aseptically in sterile culture vessels

# Weight after vacuum drying to remove all water

## **Quality Control**

#### Appearance

White to off-white, homogeneous, free flowing powder.

#### Solubility

1.60 gm/litre partially soluble in distilled water.

#### Colour and clarity

White to light yellow, hazy solution.

#### pH at 25°C

6.0 ±0.5 of 0.160% w/v dehydrated macroelements powder.

# Plant Tissue Culture



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Cultural Response		
Cultural condition :		
Incubation period Relative humidity	: 5 weeks : 60% ± 2%	
Temperature	: 22°C ± 2°C	
Photoperiod (D:N) i	n hours : 16:8	
Cell Line	Type of Culture	Results
<i>Vanda</i> species	Shoot culture	No structural deformity observed
		No necrotic tissues,
		Actively growing shoots,
		No toxicity to shoots

[The medium is prepared as per direction. The growth promoting activity of this dehydrated microelements is evaluated using plant species viz. *Vanda* species through three passages. Plant growth hormones (e.g. 2,4-D, NAA,Kinetin and 6-BAP) are added in suitable combinations and concentrations].

## 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.

### Reference

1. Vacin E.F & Went E.W., Bot. Gaz., (1949), 110, 605

### **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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