



# **Product Specification**

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## **Technical Information**

#### **Anderson Rhododendron Macroelements**

#### Product Code: TS2039

Application: Anderson Rhododendron macroelements has been specially formulated for plant cell, tissue and organ cultures. Potassium nitrate and ammonium nitrate serves as the sources of nitrate.

Composition**		
Ingredients	mg/Litre	
Potassium nitrate	480.00	
Ammonium nitrate	400.00	
Calcium chloride.2H <sub>2</sub> O	440.00	
Magnesium sulphate	180.69	
Sodium phosphate monobasic	330.39	
TOTAL gm/litre	1.83	

## Methodology

Suspend 1.72 grams of dehydrated macroelements powder<sup>#</sup> in 600ml of distilled water and rinse media vial with small quantity of distilled water to remove traces of powder. 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 1.72gm/litre soluble in distilled water. Colour and clarity Colourless to light yellow, clear solution





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pH at 25°C: 4.5 ±0.5 (under observat macroelements powde Cultural Response	tion) of 0.172% w/v dehydrated r	
Cultural condition :		
Incubation period Relative humidity Temperature Photoperiod (D:N) in ho	: 5 weeks : 60% ± 2% : 22°C ± 2°C urs : 16:8	
Cell Line	Type of Culture	Results
<i>Musa</i> species	Shoot culture	No structural deformity observed
		No necrotic tissues,
		Actively growing shoots,
		No toxicity to shoots
<i>Daucus</i> species	Callus culture	No necrotic tissues,
		Actively growing callus,
		No toxicity to callus

viz. *Musa* species and *Daucus* 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 microelements 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

• Anderson W.C., Act. Hort., (1980), 13, 112

#### **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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