



Product Specification

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Technical Information

Chée & Pool (C2D) Vitis Macroelements

Product Code: TS2041

Application: Chée & Pool (C2D) Vitis macroelements has been specially formulated for plant cell, tissue and organ cultures. Potassium nitrate, ammonium nitrate and calcium nitrate serves as the sources of nitrate

Composition**			
mg/Litre			
1900.00			
1650.00			
492.30			
180.69			
170.00			
4.39			

Methodology

Suspend 4.39 grams of dehydrated macroelements powder[#] 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 4.39 gm/litre soluble in distilled water. Colour and clarity Colourless to light yellow, clear solution





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pH at 25 [°] C: 4.2 ±0.5 (under observ Cultural Response	ation) of 0.439% w/v dehydrated macroelem	ents powder	
Cultural condition :			
Incubation period	: 5 weeks		
Relative humidity	: 60% ± 2%		
Temperature	: 22°C ± 2°C		
Photoperiod (D:N) in h	ours : 16:8		
Cell Line	Type of Culture	Results	
<i>Musa</i> species Shoot culture	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	

The medium is prepared as per direction. The growth promoting activity of this vitamin mixture is evaluated using two plant species 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

• Chée R. & Pool R.M., Scientia Horticulturae, (1987), 32, 85 - 95

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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