



Technical Information

Chée & Pool (C2D) Vitis Plant Salt Mixture

Product Code: TS2113

Application: Chée & Pool (C2D) Vitis plant salt mixture has been specially formulated for plant cell, tissue and organ cultures. The mixture contains macroelements, microelements and iron source.

Composition**

Ingredients	mg/Litre
Potassium nitrate	1900.00
Ammonium nitrate	1650.00
Calcium nitrate	492.30
Magnesium sulphate	180.69
Potassium phosphate monobasic	170.00
Manganese sulphate.H₂O	0.85
Boric acid	6.20
Molybdic acid (sodium salt).2H₂O	0.25
Zinc sulphate.7H ₂ O	8.60
Copper sulphate.5H ₂ O 0.02	
Cobalt chloride.6H ₂ O	0.025
Ferrous sulphate.7H₂O	27.80
EDTA disodium salt.2 H₂O	37.30
TOTAL gm/litre	4.47

Methodology

Suspend 4.45 grams of dehydrated plant salt mixture# 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.





Product Specification

cdhfinechemical.com

Solubility

4.45 gm/litre soluble in distilled water

Colour and clarity.pH at 25°C

Colourless to light yellow, clear solution

Cultural Response

4.0 ±0.5 (under observation) of 0.445% w/v dehydrated plant salt mixture.

Cultural condition :

Cell Line	Type of Culture	Results
Musa 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

[The medium is prepared as per direction. The growth promoting activity of this plant salt 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 plant salt mixture 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. 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.
- Central Drug House Pvt. Ltd. reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for
 infringement of any patents.
- Do not use the products if it fails to meet specifications for identity and performance parameters.