Product Specification

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Technical Information

Spathiphyllum Regeneration Medium w/ Vitamins & Sucrose; w/o Agar

Product Code: PT1157

Principle And Interpretation

Spathiphyllum regeneration medium has been specially formulated for *in vitro* culture of spathiphyllum plant. Ammonium nitrate and potassium nitrate serves as the nitrate sources. Glycine serves as the source of amino acid. Medium does not contain gelling agent; hence these components have to be added to the medium before use.

Directions

Suspend 34.43 grams (the equivalent weight of dehydrated medium per litre) in 600 ml of distilled water. Rinse media vial with small quantity of distilled water to remove traces of powder if any. Dissolve the medium completely by gentle stirring. Add other heat stable plant nutrients as required prior to autoclaving. Adjust the desired pH using 1N HCl/NaOH. Make up the final volume to 1000 ml with distilled water. Boil the medium to dissolve agar completely. Mix well and sterilize by autoclaving at 15 lbs (121ºC) for 15 minutes. Cool the medium to 45ºC. Aseptically add any desired filter sterile growth nutrients if required. Mix well and aseptically dispense desired quantity in sterile culture vessels.

Quality Control

Appearance : White to off-white, homogeneous, free flowing powder.
Solubility : 34.43 gm/litre soluble in distilled water.
Colour and Clarity : Colourless to light yellow, clear solution.
pH at 25°C : 4.1 ±0.5 of 3.443% w/v dehydrated medium.

Cultural Response :

Cultural condition :

- Incubation period : 5 weeks
- Relative humidity : 60% ± 2%
- Temperature : 22°C ± 2°C
- Photoperiod (D:N) in hours : 16:8

Cell Line	Types Of Culture	Results
Spathiphyllum species	Shoot culture	No structural deformity observed No necrotic tissues, Actively growing shoots, No toxicity to shoots

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[The medium is prepared as per direction. The growth promoting activity of this plant tissue culture medium 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 tissue culture 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.

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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