



Product Specification

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Technical Information

Quoirin & Lepoivre Medium With Vitamins And Without Sucrose, Agar

Product Code: PT1056

Composition**

Ingredients	mg/litre
Potassium nitrate	1800.00
Ammonium nitrate	400.00
Calcium nitrate	578.92
Magnesium sulphate	175.79
Potassium phosphate monobasic	270.00
Manganese sulphate.H₂O	0.76
Boric acid	6.20
Potassium iodide	0.08
Molybdic acid (sodium salt).2H₂O	0.25
Zinc sulphate.7H₂O	8.60
Copper sulphate.5H₂O	0.025
Cobalt chloride.6H₂O	0.025
Ferrous sulphate.7H₂O	27.80
EDTA disodium salt.2H₂O	37.30
myo - Inositol	100.00
Thiamine hydrochloride	0.40
TOTAL gm/litre	3.41

Principle And Interpretation

Quoirin & Lepoivre medium has been specially formulated for plant cell, tissue and organ cultures. Ammonium nitrate and potassium nitrate serves as nitrate sources. Medium does not contain sucrose and agar; hence these components have to be added to the medium before use.

Directions

Suspend 3.39 grams of dehydrated medium# 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 121ºC for 15 minutes. Cool the autoclaved medium to 45ºC 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 : 3.39 gm/litre soluble in distilled water. Colour and Clarity : Colourless to light yellow, clear solution. pH at 25°C : 3.9 ± 0.5 of 0.339% w/v dehydrated medium.





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Cultural Response:

Cultural condition:

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

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	

Storage and Shelf Life

Dehydrated plant tissue culture media 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.

Further Reading

- 1. Quoirin M. & Lepoivre P., Acta Horticulturae., (1977), 78, 437 442
- 2. Druart P., Sci. Hort., (1980), 12, 339 342
- Valles M. & Boxus Ph., Acta Hort., (1987), 212, 691 696

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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