Plant Tissue Culture



Product Specification

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Technical Information

Heller Medium

w/ Macroelements and Microelements; w/o Vitamins, Sucrose and Agar

Product Code: PT1036

Composition**				
mg/Litre				
75.000				
122.09				
108.68				
750.00				
600.00				
0.076				
1.00				
0.01				
1.00				
0.03				
0.05				
0.03				
1.00				
1.66 gm/litre				
	75.000 122.09 108.68 750.00 600.00 0.076 1.00 0.01 1.00 0.03 0.03 0.05 0.03 1.00			

Principle And Interpretation

Heller medium has been specially formulated for plant cell, tissue and organ cultures. Sodium nitrate serves as the source of nitrate. Medium does not contain vitamins, sucrose and agar; hence these components have to be added to the medium before use.

Directions

Suspend 1.66 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 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

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bility : 1.64 ur and Clarity : Color	: White to off-white, homogeneous, free flowing powder. : 1.64 gm/litre soluble in distilled water. : Colourless to light yellow, clear solution. : 4.8 ±0.5 of 0.164% w/v dehydrated powder.		
ural Response :			
tural condition : · Incubation period	: 5 weeks		
· Relative humidity	: 5 weeks		
· Temperature	: 22°C ± 2°C		
· Photoperiod (D:N) in ho			
Cell Line	Types 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		
Daucus species	Callus culture	No toxicity to shoots	

[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 macroelements 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. Heller R., Ann. Sci. Nat. Bot. et Biol. Veg. 11th Ser., (1953), 14, 1 - 223

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Disclaimer:

- User must ensure suitability of the product(s) in their application prior to use.
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