Plant Tissue Culture



Product Specification

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Technical Information

CLC / Ipomoea Basal Medium (for Embryo Development, EP) w/ Vitamins; w/o Sucrose and Agar

Product Code: PT1029

Composition**

Ingredients	mg/Litre	
Potassium nitrate	1900.00	
Ammonium nitrate	800.40	
Calcium chloride.2H ₂ O	440.00	
Magnesium sulphate	180.69	
Potassium phosphate monobasic	170.00	
Manganese sulphate.H ₂ O	16.89	
Boric acid	6.20	
Potassium iodide	0.83	
Molybdic acid (sodium salt).2H ₂ O	0.25	
Zinc sulphate.7H ₂ O	8.60	
Copper sulphate.5H ₂ O	0.025	
Cobalt chloride.6H ₂ O	0.025	
Ferrous sulphate.7H ₂ O	27.80	
EDTA disodium salt.2H ₂ O	37.26	
myo - Inositol	90.10	
Thiamine hydrochloride	1.68	
Pyridoxine hydrochloride	1.02	
Nicotinic acid (Free acid)	1.23	
TOTAL	3.68 gm/litre	
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Principle And Interpretation

CLC / Ipomoea basal medium has been specially formulated for *in vitro* embryo development. Ammonium nitrate and potassium nitrate serves as the sources of nitrate. Medium does not contain agar and sucrose; hence these components have to be added to the medium before use.

Directions

Suspend 3.68 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

Central Drug House (P) Ltd. | Corp. Office : 7/28, Vardaan House, Darya Ganj, New Delhi - 110002 (INDIA), Phone : +91-11-49404040 (100 Lines) Mfg Unit : Plot No. D-2/CH/9, Dahej-2, GIDC, Dist. Bharuch - 392130 (Gujarat), E-mail : sales@cdhfinechemical.com

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earance	: White to off-white, homogeneous, free flowing powder.					
ubility		e soluble in distilled water.				
our and Clarity	-	o light yellow, clear solution				
at 25°C	: 4.0 \pm 0.5 of 0.354% w/v dehydrated medium.					
tural Response :						
tural condition :						
· Incubation p	eriod	: 5 weeks				
· Relative hum		: 60% ± 2%				
· Temperature		: 22°C ± 2°C				
•	(D:N) in hours	: 16:8				
Cell Line		Types Of Culture	Results			
Cell Line Musa species		Types Of Culture				
		~	No structural deformity observed			
		~	No structural deformity observed No necrotic tissues,			
		~	No structural deformity observed No necrotic tissues, Actively growing shoots,			
		~	No structural deformity observed No necrotic tissues,			
		~	No structural deformity observed No necrotic tissues, Actively growing shoots,			
Musa species		Shoot culture	No structural deformity observed No necrotic tissues, Actively growing shoots, 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. Chée, R.P., Leskovar D.I. & Cantliffe D.J., J. Amer. Soc. Hort. Sci., (1992), 117, 663 - 667

Disclaimer :

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