

Technical Information

Strawberry Multiplication Medium With Vitamins, Sucrose, 6-BAP And Agar

Product Code: PT1117

Composition**

Ingredients	mg/litre
Potassium nitrate	1900.00
Ammonium nitrate	1650.00
Calcium chloride.2H ₂ O	440.00
Magnesium sulphate	180.69
Potassium phosphate monobasic	170.00
Manganese sulphate.H ₂ O	16.90
Boric acid	6.20
Potassium iodide	0.83
Molybdc 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	37.30
myo - Inositol	100.00
Thiamine hydrochloride	0.40
Pyridoxine hydrochloride	0.50
Nicotinic acid (Free acid)	0.50
6-Benzylamino purine	1.00
Sucrose	30000.00
Agar	8000.00
TOTAL gm/litre	40.54

Principle And Interpretation

Strawberry multiplication medium has been specially formulated for the *in vitro* culture of strawberry species. Potassium nitrate and ammonium nitrate serves as the sources of nitrate. 6BAP serves as plant growth regulator. Sucrose serves as the source of carbohydrate. Agar is incorporated into the medium to provide firm base to the explants.

Directions

Suspend 42.41 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. Boil the medium to dissolve agar completely. 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.
Solubility	: 42.41 gm/litre soluble after boiling in distilled water.
Colour and Clarity	: Colourless to light yellow, hazy gel is formed on cooling.
pH at 25°C	: 4.5 ±0.5 of 4.241% 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	Type of Culture	Results
<i>Musa species</i>	Shoot culture	No structural deformity observed No necrotic tissues, Actively growing shoots, No toxicity to shoots
<i>Daucus species</i>	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.

Disclaimer :

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