Technical Information

Strawberry Rooting Medium

With Vitamins, Sucrose, IBA, Activated Charcoal And Agar

Product Code: PT1118

Composition**

Ingredients	mg/litre
Potassium nitrate	1900.00
Ammonium nitrate	1650.00
Calcium chloride.2H_2O	440.00
Magnesium sulphate	180.69
Potassium phosphate monobasic	170.00
Manganese sulphate.H_2O	16.90
Boric acid	6.20
Potassium iodide	0.83
Molybdic acid (sodium salt).2H_2O	0.25
Zinc sulphate.7H_2O	8.60
Copper sulphate.5H_2O	0.025
Cobalt chloride.6H_2O	0.025
Ferrous sulphate.7H_2O	27.80
EDTA disodium salt.2H_2O	37.30
myo - Inositol	100.00
Thiamine hydrochloride	0.40
Pyridoxine hydrochloride	0.50
Nicotinic acid (Free acid)	0.50
Indole-3-butyric acid	0.10
Activated charcoal	800.00
Sucrose	30000.00
Agar	8000.00
TOTAL gm/litre	43.34

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. IBA serves as plant growth regulator. Activated charcoal serves as an adsorbent. Sucrose serves as the source of carbohydrate. Agar is incorporated into the medium to provide firm base to the explants.

Directions

Suspend 43.21 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 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 : Grey to black, homogeneous, free flowing powder.
Solubility : 43.21 gm/litre soluble after boiling in distilled water.
Colour and Clarity : Grey to black, opaque gel is formed on cooling.
pH at 25°C : 4.5 ±0.5 of 4.321% 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
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.

Disclaimer :

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