



## **Technical Information**

### **Street Medium**

With Vitamins, Sucrose And Without Agar

Product Code: PT1013

Composition\*\*

Ingredients	mg/litre
Potassium nitrate	80.00
Calcium nitrate	200.00
Magnesium sulphate	360.00
Sodium phosphate monobasic	16.50
Potassium chloride	65.00
Sodium sulphate	200.00
Manganese sulphate.H₂O	6.04
Boric acid	1.50
Potassium iodide	0.75
Molybdic acid (sodium salt).2H <sub>2</sub> O	0.0025
Zinc sulphate.7H₂O	2.67
Copper sulphate.5H₂O	0.02
Ferrous sulphate.7H₂O	1.74
Thiamine hydrochloride	0.10
Pyridoxine hydrochloride	0.10
Nicotinic acid (Free acid)	0.50
Glycine (Free base)	3.00
Sucrose	20000.00
TOTAL gm/litre	20.94

### **Principle And Interpretation**

Street medium is a defined medium, which consists of inorganic salts, vitamins and carbohydrate. Potassium nitrate and calcium nitrate serves as the nitrate sources. Sucrose serves as the carbohydrate source. Medium is devoid of agar, hence this component has to be added to the medium prior to use.

#### Directions

Suspend 20.94 grams of dehydrated medium<sup>#</sup> 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

### **Quality Control**

**Appearance**: White to off-white, homogeneous, free flowing powder.

Solubility : 20.94 gm/litre freely soluble in distilled water.

Colour and Clarity : Colourless to light yellow, clear solution.

pH at 25°C : 5.2 ±0.5 of 2.094% w/v dehydrated medium.





# **Product Specification**

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### Cultural Response:

Cultural condition:

 $\begin{array}{lll} \cdot \ \, \text{Incubation period} & : 5 \ \text{weeks} \\ \cdot \ \, \text{Relative humidity} & : 60\% \pm 2\% \\ \cdot \ \, \text{Temperature} & : 22^{\circ}\text{C} \pm 2^{\circ}\text{C} \\ \cdot \ \, \text{Photoperiod (D:N) in hours} & : 16:8 \end{array}$ 

Cell Line	Type of Culture	Results
Musa species Shoot culture	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

[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 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**

• Street H.E., Discovery (1954), 15, 286 - 292

### 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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