

Technical Information

Phyto Casein Hydrolysate Sucrose Agar

Product Code: PHM1003

Application: Phyto Casein Hydrolysate Sucrose Agar is used as a general-purpose medium for cultivation of bacteria.

Composition**

Ingredients	Grams/Litre
Casein Hydrolysate	8.0
Yeast extract	4.0
Magnesium sulphate heptahydrate	0.15
Potassium phosphate monobasic	2.0
Sucrose	10.0
Agar	8.0

**Formula adjusted standard to suit the performance parameter

Principle And Interpretation

Phyto Casein Hydrolysate Sucrose Agar is used as a general purpose medium for cultivation of bacteria. Phyto Casein Hydrolysate Sucrose Agar is used to eliminate contaminated explants during initiation of material into culture and during transfer of shoots to fresh medium (1).

Casein hydrolysate and yeast extract provides the necessary nutrients and nitrogenous compounds. Sucrose in the medium is the carbohydrate source. Salts in the medium helps in the buffering action.

Directions

Suspend 32.04 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize the medium by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into Petri plates.

Quality Control

Appearance:

Cream to tan coloured homogeneous free flowing powder

Gelling:

Comparable with 0.8% Agar gel.

Colour and Clarity of prepared medium:

Yellow coloured, opalescent gel forms in Petri plates

Cultural Response:

Cultural characteristics observed after an incubation at 30-32°C for 5-6 days.

Organism (ATCC)

Clavibacter michiganensis
subsp michiganensis

Growth

luxuriant

Colony characteristics

small, light to dark grey, glistening , (often irregularly shaped)

Storage and Shelf Life

Store below 30°C and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Further Reading

- Viss, P.R. et al (1991) A simplified method for the control of bacteria contamination in woody plant tissue culture. In Vitro Cell Devel. Biol. 27P:42

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