PHM022 **Phyto Yeast Extract Glucose Agar**

Non Selective medium used to subculture suspected *Xanthomonads* and *Clavibacters*

Composition **:

Ingredients	**Grams/Litre**
Yeast extract	10.00
Calcium carbonate	20.00
Glucose anhydrous	20.00
Agar	15.00
Final pH (at 25°C)	6.9

**Formula adjusted standard to suit the performance parameter

Direction.:

Suspend 65.0 grams in 1000 ml distilled water. Heat just to boiling. Sterilize by autoclaving at 15 lbs pressure(121°C) for 15 minutes .Cool to 45-50 °C .Mix well so as to distribute Calcium carbonate evenly and pour into sterile Petri plates .
Note : Due to the presence of Calcium carbonate the prepared medium forms opalescent gel with white precipitate

Principle and Interpretation

It is a non selective medium, suggested for subculturing *Xanthomonas* and *Clavibacter* after isolation on semi selective media. (1).

Yeast extract supplies nitrogenous compounds, vitamins and other essential nutrients to the organisms. Glucose serves as a carbohydrate source. Calcium carbonate acts as neutralizer.

Quality Control :
Cream to yellow coloured, homogeneous, free flowing powder.
Gelling
Firm, comparable with 1.5% Agar gel.
Reaction :
Reaction of 6.5% w/v aqueous solution. is pH : 6.9 at 25°C.
Colour and Clarity of prepared medium
Yellow coloured, opalescent gel with white precipitate forms in Petri plates
Cultural Response:
Cultural characteristics observed after an incubation at 25-30°C for 5-6 days.

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Organism (ATCC)	Growth	Colour of the Colony
Xanthomonas campestris pv. vesicatoria	luxuriant	yellow
Clavibacter michiganesis subsp *michiganesis*	luxuriant	orange

References:

1. Wilson, E.E. Zeitoun, F.M. Fredrickson, D.L. 1967. Bacterial phloem canker, a new disease of Persian walnut trees. Phytopathology 57:618-621

Storage and Shelf-life :

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

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