

Technical Information

Phyto Pspo Agar Base

Product Code: PHM1010

Application: Selective medium for the detection *Pseudomonas syringae pv. porri* on the seeds of leek.

Composition**

Ingredients	Grams/Litre
Peptone special	5.00
Sucrose	20.00
Di-potassium hydrogen phosphate	0.50
Magnesium sulphate anhydrous	0.13
Agar	20.00
Total	45.63 gm/liter

**Formula adjusted standard to suit the performance parameter

Principle And Interpretation

Bacterial blight of leek is caused by *Pseudomonas syringae pv. Porri*, a gram negative bacterium. The symptoms generally include Symptoms were water-soaked lesions at leaf tips, which eventually expanded down the length of the leaf and resulted in brown, elongated, stripelike lesions with yellow margins. (1). *Pseudomonas syringae pv. Porri* is usually seed borne and therefore this medium is suitable for the isolation of this organism from the seeds of leek.

Peptone special provide nitrogenous compounds, carbon, vitamin B complex and trace ingredients. Sucrose serves as a source of carbohydrate. The inorganic phosphates in the medium serve as buffers.

Directions

Suspend 45.63 grams in 1000 ml distilled water containing 1 gram of boric acid. Heat to boiling to dissolve the medium completely. Sterilize the medium by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50 °C and aseptically add the rehydrated contents of one vial of CNF supplement (PHS1006). Mix well and pour into sterile Petri plates .

Quality Control

Appearance:

Cream to yellow coloured, homogeneous, free flowing powder.

Gelling:

Firm, comparable with 2.0% Agar gel.

Colour and Clarity of prepared medium:

Blue coloured opalescent gel forms in Petri plates

Reaction:

Reaction of 4.56% w/v aqueous solution is pH 7.50 at 25°C..

Cultural Response:

Cultural characteristics observed after an incubation at 30-32°C for 5-6 days with added CNTB supplement-1 (PHS1005).

Organism (ATCC)	Growth	Colour of colony
<i>Xanthomonas hortorum pv carotae</i>	Luxuriant	Light yellow cream , Light brown to Peach yellow, Gliesting, round and about 2-4mm in diameter
<i>Staphylococcus aureus</i>	Inhibited	-

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

- Koike ST , Barak JD, Henderson DM, Gilbertson RL, Bacterial blight of leek: a new disease in California caused by *Pseudomonas syringae* ,Plant Disease 1999, 83:165-170,

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