



## Pseudomonas Solanacearum Medium

M1381

Pseudomonas Solanacearum Medium is recommended for the cultivation of *Pseudomonas solanacearum*.

### Composition\*\*

Ingredients	Gms / Litre
Peptic digest of animal tissue	10.000
Glucose	5.000
Casein enzymic hydrolysate	1.000
Agar	17.000

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 33 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Distribute into tubes or flasks. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates or leave in tubes.

### Principle And Interpretation

*Pseudomonas solanacearum* is one of the worlds most potent phytopathogenic pseudomonad (1). It falls under non-fluorescent group of Pseudomonads. *Pseudomonas solanacearum* is commonly isolated from soil and is often an internal resident of plant tissues. Pseudomonas Solanacearum Medium is accepted as a cultivation and maintenance medium for *P. solanacearum* (2). Peptic digest of animal tissue and casein enzymic hydrolysate in the medium provide carbon and nitrogen sources required for the good growth of the bacterium. Glucose is the energy source.

### Quality Control

#### Appearance

Cream to yellow homogeneous free flowing powder

#### Gelling

Firm, comparable with 1.7% Agar gel

#### Colour and Clarity of prepared medium

Light yellow coloured clear to slightly opalescent gel forms in Petri plates or tubes

#### Cultural Response

M1381: Cultural characteristics observed after an incubation at 25-30°C for 18-48 hours.

Organism	Inoculum (CFU)	Growth	Recovery
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#### Cultural Response

*Pseudomonas solanacearum* 50-100 good-luxuriant  $\geq 50\%$   
ATCC 11696

*Pseudomonas aeruginosa* 50-100 none-poor  $\leq 10\%$   
ATCC 27853

### Storage and Shelf Life

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

### Reference

1. Balows A., Truper H. G., Dworkin M. Harder W. and Schleifer K. H., (Eds.), 1992, The Prokaryotes, 2nd Ed., Vol. III : 3104, Springer-Verlag Publ. N.Y.
2. Atlas R. M., 1997, Handbook of Microbiological Media, 2nd Edition, Lawrence C. Parks (Ed.), CRC Press.

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