

TM 2296 – PSEUDOMONAS SOLANACEARUM MEDIUM

INTENDED USE

For the cultivation of *Pseudomonas solanacearum*.

PRODUCT SUMMARY AND EXPLANATION

Pseudomonas solanacearum is one of the world's most potent phytopathogenic pseudomonad. It falls under nonfluorescent 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*.

COMPOSITION

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

PRINCIPLE

This medium consists of Peptic digest of animal tissue and casein enzymic hydrolysate which provide carbon and nitrogen sources required for the good growth of the bacterium. Glucose is the energy source.

INSTRUCTION FOR USE

- Dissolve 33.0 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely. Distribute into tubes or flasks.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Mix well and pour into sterile Petri plates or leave in tubes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.

Appearance of prepared medium : Light yellow coloured clear to slightly opalescent gel forms in Petri plates or tubes.

pH (at 25°C) : 7.0 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period

<i>Pseudomonas aeruginosa</i>	27853	50-100	None-poor	0-10%	25-30°C	18-48 Hours
<i>Pseudomonas solanacearum</i>	11696	50-100	Good-luxuriant	>=50%	25-30°C	18-48 Hours

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.










Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

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.

 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. Lot / Batch Number	 Consults Instructions for Use	 QR Code	

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

*For Lab Use Only
Revision: 08 Nov., 2019