

CM 21462 – PSEUDOMONAS AGAR P (FOR PYOCYANIN) (VEG.)

INTENDED USE

For detection of Pyocyanin production by Pseudomonas species.

PRODUCT SUMMARY AND EXPLANATION

Pseudomonas Agar (Veg) is prepared by using Veg special peptone, which is free from BSE/TSE risks associated with animal based peptones. It is the modification of Pseudomonas Agar which is based on the formulation described by King et al for detecting pyocyanin, a water soluble pigment by Pseudomonas species. This medium enhances the elaboration of pyocyanin but inhibits the formation of fluorescein pigment. The pyocyanin pigment diffuses from the colonies of Pseudomonas into the agar and shows blue colouration. Some Pseudomonas strains produce small amounts of fluorescein resulting in a blue-green colouration.

COMPOSITION

Ingredients	Gms / Ltr
Veg special Peptone	20.000
Potassium sulphate	10.000
Magnesium chloride	1.400
Agar	15.000

PRINCIPLE

The medium consists of Veg special peptone which provides nitrogenous growth nutrients, carbon, sulphur and trace elements for Pseudomonas species. Potassium sulphate and magnesium chloride enhances the pyocyanin production and suppresses the fluorescein production. Glycerol acts as a source of energy and enhances pigment production.

INSTRUCTION FOR USE

Dissolve 46.40 grams in 1000 ml purified/distilled water containing 10 ml glycerol.

Boil to dissolve the medium completely.

Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.
Appearance of prepared medium	: Yellow coloured clear to slightly opalescent gel forms in Petri plates.
pH (at 25°C)	: 7.0 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Colour of Medium	Incubation Temperature	Incubation Period
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Pseudomonas aeruginosa	27853	50 -100	Luxuriant	>=70 %	Blue-green	35-37°C	18-24 Hours
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PACKAGING:

In pack size of 100 gm and 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.

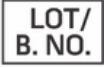
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

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

REFERENCES

1. King, Ward and Raney, 1954, J. Lab. Clin. Med., 44 : 301.
2. MacFaddin J., 1985, Media for Isolation-Cultivation-Identification Maintenance of Medical Bacteria, Volume I, Williams and Wilkins, Baltimore.

 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