

Technical Data

Penicillin and Pimaricin Pseudomonas Agar Base (PP Pseudomonas Agar Base)

M1788

PP Pseudomonas Agar Base is recommended for selective isolation of Pseudomonas species on addition of supplements.

Composition**	
Ingredients	Gms / Litre
Pancreatic digest of gelatin	16.000
Casein enzymic hydrolysate	10.000
Potassium sulphate	10.000
Magnesium chloride	1.400
Agar	15.000
Final pH (at 25°C)	7.2±0.2
**Formula adjusted, standardized to suit performa	ance parameters

Directions

Suspend 52.4 grams in 1000 ml distilled water containing 5 ml glycerol. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add sterile rehydrated contents of PP Pseudomonas Selective Supplement (FD 264) and PP Pseudomonas Selective Supplement II (FD 265). Mix well and pour into sterile Petri plates.

Principle And Interpretation

Pseudomonas species are aerobic, non-spore forming ,gram negative rods ,found in water, soil and plants including fruits and vegetables. *Pseudomonas aeruginosa* has become increasingly recognized as an emerging opportunistic pathogen of clinical relevance especially in patients with compromised host defense mechanisms. Several different epidemiological studies have found its occurrence as a nosocomial pathogen (1) *P.aeruginosa* strains produces two types of soluble pigments, the fluorescent pigment pyoverdin and the blue pigment pyocyanin. Pyocyanin (from "pyocyaneus") refers to "blue pus", which is a characteristic of suppurative infections caused by *P. aeruginosa* . Penicillin and Pimaricin Pseudomonas Agar Base is formulated as recommended by ISO Committee (2) .The medium contains pancreatic digest of gelatin and casein enzymic hydrolysate which serves provides essential nitrogenous nutrients and carbon required for the growth of *Pseudomonas* . Potassium sulphate and magnesium chloride serves to enhance pigment production . Addition of PP Pseudomonas Selective Supplement which contains Penicillin and PP Pseudomonas Selective Supplement II which contains Pimaricin (natamycin) to the medium helps in the selective isolation of *Pseudomonas* , thereby inhibiting the accompanying flora.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Yellow coloured clear to slightly opalescent gel forms in Petri plates

Reaction

Reaction of 5.24% w/v aqueous solution (containing 1% v/v glycerol) at 25°C. pH : 7.2±0.2

pН

7.00-7.40

Cultural Response

M1788: Cultural characteristics observed with added 1% glycerol after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum	Growth	Recovery	Colour of
	(CFU)			colony

Please refer disclaimer Overleaf.

Cultural Response				
Pseudomonas fluorescens	50-100	luxuriant	>=50%	greenish yellow
ATCC 13525				
Pseudomonas aeruginosa	50-100	luxuriant	>=50%	greenish yellow
ATCC 27853				
Escherichia coli ATCC	>=103	inhibited	0%	
25922				
Staphylococcus aureus	>=103	inhibited	0%	
ATCC 25923				

Storage and Shelf Life

Store below 30°C in tightly closed container and prepared plates at 2-8°C in the dark for not more than 1day. Use before expiry date on the label.

Reference

1. Murray P.R., Baron J.H., Pfaller M.A., Jorgensen J.H. and Yolken R.H., (Ed), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.

2. International Organization for Standardization, 2009, Draft ISO/TS 11059:2009 (E).

Revision : 2 / 2015

Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia[™] publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia[™] Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory,diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

HiMedia Laboratories Pvt. Ltd. A-516, Swastik Disha Business Park, Via Vadhani Ind. Est., LBS Marg, Mumbai-400086, India. Customer care No.: 022-6147 1919 Email: techhelp@himedialabs.com