



## Pseudomonas Isolation Agar

Instructions for Use

20-2201 InTray™ Pseudomonas Isolation Agar, 2"tray, 20 trays/box

20-2207 InTray™ Pseudomonas Isolation Agar, 2"tray, 5 trays/box

### INTENDED USE

Pseudomonas Isolation (PI) Agar is a selective and differential medium for isolation of *Pseudomonas aeruginosa*.

### DESCRIPTION AND PRINCIPLE OF USE

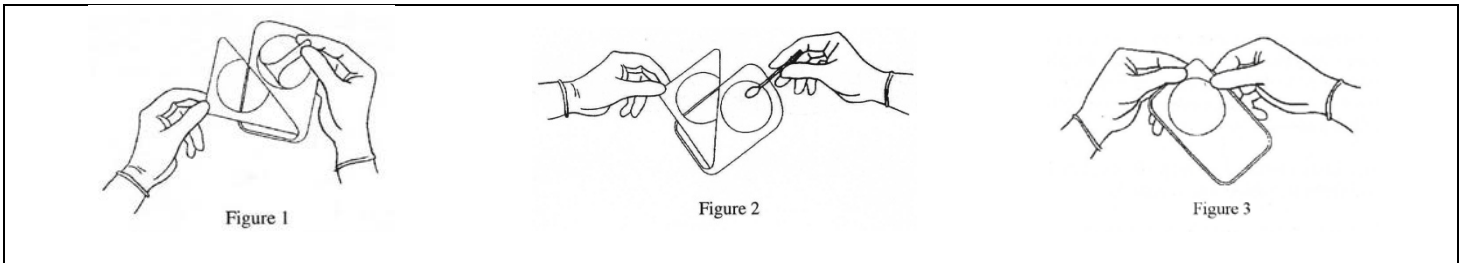
*Pseudomonas aeruginosa* is an opportunistic pathogen that can infect eyes, ears, burns and wounds<sup>1</sup>. It is also a leading cause of hospital acquired infections<sup>2</sup>. Patients undergoing antibiotic therapy may be especially susceptible to infection by *P. aeruginosa*. PI Agar is prepared according to a slight modification of King's "Medium A"<sup>3</sup> and includes Irgasan™, a potent broad spectrum antimicrobial that is not active against *Pseudomonas*. As well as being selective, PI Agar is formulated to enhance the formation of the blue or blue-green pyocyanin pigment by *P. aeruginosa*. The pigment diffuses into the medium surrounding growth.

### STORAGE

Upon receipt, store InTray™ Pseudomonas Isolation Agar under refrigeration (2-8°C). Medium can be kept for one day at ambient temperature. Protect media from exposure to light, excessive heat, moisture and freezing. Do not open until ready to use. Do not use if the medium shows signs of deterioration, shrinking, cracking, discoloration or contamination.

### INOCULATION PROCEDURE

Allow the InTray™ to warm to room temperature. Lift the lower right corner of the flexible InTray™ label until the protective seal is completely visible. Remove the paper-foil seal by pulling the tab (Fig. 1). **Discard** the seal. **DO NOT REMOVE OR ALTER THE WHITE FILTER STRIP OVER THE VENT HOLE!**



Streak laboratory sample onto the agar surface for isolation (Fig. 2). Reseal the InTray™ label to the plastic tray body. **Press all around the perimeter of the InTray™ to ensure a complete seal** (Fig. 3). Immediately label the InTray™ with sample information and date. **DO NOT COVER THE VIEWING WINDOW.**

### CULTURE AND RESULTS

Incubate at 35±2°C for 18-48 hours under ambient atmosphere. Examine for the presence of good growth. *P. aeruginosa* colonies may be greenish after incubation for 18 hours and turn blue to blue-green as incubation continues up to 24-48 hours, with diffusion of the pigment into the medium.

### LIMITATIONS/PRECAUTIONS

For *in vitro* diagnostic use. Some strains of *P. aeruginosa* may fail to produce pyocyanin. Non- *P. aeruginosa* strains that are not completely inhibited on this medium may be encountered and must be differentiated from *P. aeruginosa*<sup>1,4</sup>. Definite identification requires additional testing. Once the InTray™ has been inoculated and resealed, re-open only in a biological safety cabinet. Because of the potential for containing infectious materials, the InTray™ must be destroyed by autoclaving at 121°C for 20 minutes.



## INTERPRETATION

Organism	Colony Appearance
<i>P. aeruginosa</i>	Green to Blue-green
Other bacteria	Inhibited.

## REAGENTS

Pseudomonas Isolation agar contains Peptone (20.0 g/L), Magnesium Chloride (1.4 g/L), Potassium Sulfate (10.0 g/L), Irgasan™ (25.0 mg/L) and Agar (13.6 g/L)

## QUALITY CONTROL

All Pseudomonas Isolation agar products are performance verified with the following ATCC® microbe strains. Product performance is also verified periodically throughout the marked shelf life of each lot.

Organism	ATCC®	Colony Appearance
<i>P. aeruginosa</i>	10145	Green to Blue-green
<i>P. aeruginosa</i>	27853	Green to Blue-green
<i>E. coli</i>	25922	Marked to complete inhibition

SYMBOL KEY			
Symbol	Used For	Symbol	Used For
LOT	Batch code	18° / 25°	Temperature limitation
	Date of manufacture	REF	Catalog number
	Use by YYYY-MM-DD or YYYY-MM		Caution, consult accompanying documents
	Manufacturer	EC REP	Authorized representative in the European Community
IVD	In vitro diagnostic medical device		in European community

## REFERENCES

- 1 Kiska, *et al.* 1999. In Murray, *et al.* [eds.], Manual of Clinical Microbiology, 7th ed. ASM, Washington, D.C. Bettelheim, *et al.* 1998; *J Appl Microbiol*; 85
- 2 Bodey, G.D., *et al.* 1989. "Infections caused by *P. aeruginosa*". *Rev. Infect. Dis.*; 5:279-313
- 3 King, *et al.* 1954. *J Lab Clin Med*; 44
- 4 Pezzlo. 1992. In Isenberg [ed.], Clinical Microbiology Procedures Handbook, vol. 1. ASM, Washington, D.C.

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