

Pseudomonas Agar Base



Medium used for the isolation and cultivation of *Pseudomonas* spp. from food, water and environmental samples.

• CONTENTS (Liter)

Gelatin Peptone	16.0 g
Casein Hydrolysate	10.0 g
Potassium Sulfate	10.0 g
Magnesium Chloride	1.4 g
Agar	15.0 g
Final pH = 7.1 ± 0.2 at 25°C	

• PROCEDURE

Suspend 52.4 G of powder in 1L of distilled or deionized water. Add 10 mL of Glycerol supplement (MB-G1821). Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Aseptically add 2 vials of C.F.C.(*Pseudomonas*) supplement (MB-C1849) (*Pseudomonas* CFC Agar) or 2 vials of C.N.(*Pseudomonas*) supplement (MB-C1806) (*Pseudomonas* CN Agar). Mix well. Pour into petri dishes.

C.F.C.(*Pseudomonas*) supplement

1 vial contents (each vial is sufficient for 500mL of medium)

Cetrimide	0.005 g
Fucidic Acid	0.005 g
Cefaloridine	0.025 g

C.N.(*Pseudomonas*) supplement

1 vial contents (each vial is sufficient for 500mL of medium)

Cetrimide	0.1 g
Nalidixic Acid	0.0075 g

• INTERPRETATION

Pseudomonas Agar Base is a medium used for the isolation and cultivation of *Pseudomonas* spp. from food, water and environmental samples. Gelatin peptone and casein hydrolysate provide nitrogen, carbon, vitamins and minerals sources. Potassium sulfate and magnesium chloride added to enhance of pigment production. Agar is the solidifying agent. C.F.C.(*Pseudomonas*) supplement and C.N.(*Pseudomonas*) supplement are the selective agents.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 25 ± 1°C for 40 - 48 hours for *Pseudomonas* CFC Agar and 36 ± 2°C for 40 - 48 hours for *Pseudomonas* CN Agar. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

Prepared medium

Appearance : slightly opalescent

Color: light amber

Incubation conditions: 25 ± 1°C / 40 - 48 hours for Pseudomonas CFC Agar

36 ± 2°C / 40 - 48 hours for Pseudomonas CN Agar

Microorganism	ATCC	Inoculum CFU	Growth
<i>Pseudomonas aeruginosa</i>	27853	50-100	good
<i>Pseudomonas aeruginosa</i>	9027	50-100	good
<i>Staphylococcus aureus</i>	25923	≥10 ³	inhibited

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

• REFERENCES

1. King, E.O., M.K. Ward, and D.E. Raney (1954). Two simple media for the demonstration of pyocyanin and fluorescin. J. Lab. Clin. 44, 301.
2. The United States Pharmacopeia. 23rd ed. (1995).
3. Bacteriological Analytical Manual. 8th ed. (1995). AOAC International, Gaithersburg, MID.
4. EN 12780: 2002. Water quality – Detection and enumeration of *Pseudomonas aeruginosa* by membrane filtration.

• PACKAGE

Cat. No : MB-P1071 Pseudomonas Agar Base	500 G
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