

P2102 Pseudomonas Agar Base

Pseudomonas Agar Base with added supplements is recommended for the selective isolation of the Pseudomonas species. It is also recommended by the ISO Committee under the specification ISO 13720:1995 for the enumeration of the Pseudomonas species from meat and meat products.

Composition:

Ingredients	Grams/Litre
Peptic digest of animal tissue	16.0
Casein enzymic hyrolysate	10.0
Potassium sulphate	10.0
Magnesium chloride hexahydrate	1.4
Agar	11.0
Final pH 7.1 +/- 0.2 at 25°C	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder in a dry place in tightly-sealed containers at 2-25°C. Store the prepared medium at 2-8°C.

Appearance: Yellow colored, homogeneous, free flowing powder.

Gelling: Firm

Color and Clarity: Yellow colored, clear to slightly opalescent gel forms in petri plates.

Directions:

Suspend 24.2 g of Pseudomonas Agar Base in 500 ml of distilled water containing 5 ml of (Cat. No 49769) 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 the sterile rehydrated contents of either 1 vial Cetrinix Supplement (Cat. No C8721) or 1 vial C.F.C. Supplement (Cat. No 53477). Mix well and pour into sterile petri plates.

Note: Do not keep the molten agar for longer than 4 hours.

Principle and Interpretation:

Pseudomonas Agar Base is a modification of King's Agar. Casein enzymic hydrolysate and Peptic digest of animal tissue are sources of nitrogen, carbon and other essential growth factors. Potassium sulphate and magnesium chloride enhance the pigment production.¹ Agar is the solidifying agents. Cetrinix Supplement (with cetrimide and nalidixic acid) is recommended for the selective isolation from *Pseudomonas aeruginosa* from clinical specimens and suppresses Klebsiella, Proteus and Providencia species.^{2,3} Mead and Adams developed a selective formulation the C.F.C. Supplement (with Cetrimide, Fucidin and Cephaloridine) for isolating Pseudomonas from chilled food, processing plants, environmental samples and water.⁴ ISO committee recommends this medium for enumeration of Pseudomonas species from meat and meat products.

Cultural characteristics after 24-48 hours at 25 or 35°C.

Organisms (ATCC)	Cetrinix Supplement (35°C)	C.F.C. Supplement (25°C)
Pseudomonas aeruginosa (27853)	+++	
Pseudomonas cepacia (10661)		+++
Proteus vulgaris (13315)	-	
Staphylococcus aureus (25923)		-



References

- 1. E.O. King, et al., J. Lab and Clin. Med. 44, 301(1954)
- 2. S. Goto, et al., Jap. J. Microbiol. 14, 65 (1970)
- 3. E.J. Lowbury, et al., Clin. Path. 8, 47 (1955)
- 4. G.C. Mead, et al., Br. Poult. Sci. 18, 661 (1977)
- 5. International Organization for Standardization, Draft ISO/DIS 13720 (1995)
- 6. American Type Culture Collection, Manassas, Va., U.S.A.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

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