Pseudomonas Fluorescent Agar



Medium used for the isolation and identification of *Pseudomonas aeruginosa* from other Pseudomonas spp. on the basis of fluorescein production.

CONTENTS (Liter)

Dipotassium Phosphate	1.0 g
Magnesium Sulfate	0.5 g
Potassium Chloride	0.2 g
Sodium Nitrate	5.0 g
Bile Salt	1.0 g
Betaine	5.0 g
Agar	15.0 g
Final pH = 7.3 ± 0.2 at 25 °C	

PROCEDURE

Suspend 27.7 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. DO NOT AUTOCLAVE. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

INTERPRETATION

Pseudomonas Fluorescent Agar is a medium used for the isolation and identification of *Pseudomonas aeruginosa* from other Pseudomonas spp. on the basis of fluorescein production which fluoresces greenish-blue when the growths are observed under a UV. Dipotassium phosphate and magnesium sulfate enhance fluorescein production. Potassium chloride maintains isotonic conditions. Sodium nitrate serves as the sole source of nitrogen. Bile salt inhibits the growth of Gram-positive bacteria. Betaine provides positive ions. Agar is the solidifying agent.

TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at $35 \pm 2^{\circ}$ C for 18 - 24 hours. 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: creamy white with precipitates

Incubation conditions: $35 \pm 2^{\circ}$ C / 18 - 24 hours

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics	UV Test
Pseudomonas aeruginosa	27853	50-100	good	greenish-yellow colony	greenish-blue
Pseudomonas stutzeri	17588	50-100	good	greenish-yellow colony	greenish-blue
Pseudomonas chlororaphis	9446	≥10³	inhibited	-	-
Pseudomonas putida	17514	≥10³	inhibited	-	-
Escherichia coli	25922	≥10³	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.

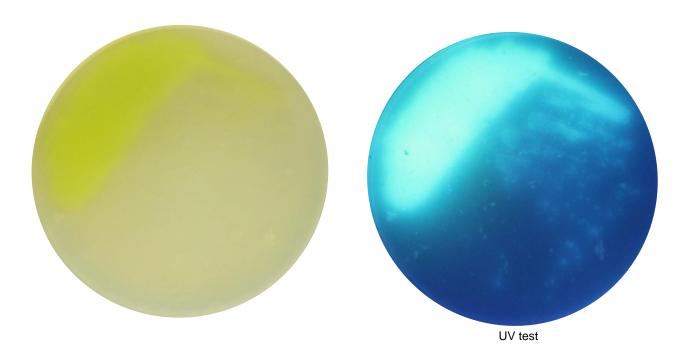
REFERENCES

- 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

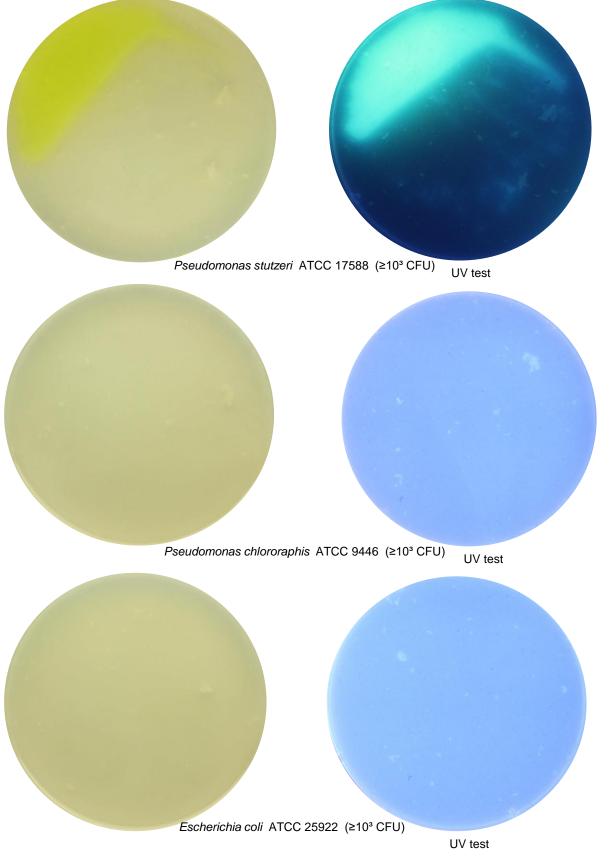
Cat. No : MB-P0609 Pseudomonas Fluorescent Agar	500 G

MICROBIAL CULTURE IMAGES



Pseudomonas aeruginosa ATCC 27853 (≥10³ CFU)

Incubation conditions : $35 \pm 2^{\circ}$ C / 18 - 24 hours



Incubation conditions : 35 \pm 2°C / 18 - 24 hours



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