P1852 Pseudomonas agar (for Fluorescein)

Pseudomonas Agar (for Fluorescein) is recommended for the detection of fluorescein production by the *Pseudomonas* species. It is recommended by the U.S. Pharmacopeia. The fluorescein pigment diffuses from the colonies into the agar and show a yellow fluorescent coloration.

Composition:

Ingredients	Grams/Litre
Casein Enzymic Hydrolysate	10.0
Proteose Peptone	10.0
Dipotassium Phosphate	1.5
Magnesium Sulfate	1.5
Agar	15.0
Final pH 7.0 +/- 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.
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 38 g of Pseudomonas Agar (For Fluorescein) in 1000 ml of distilled water containing 10 ml of glycerol (Fluka 49769). Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes.

Principle and Interpretation:
Casein enzymic hydrolysate and proteose peptone provide the essential nitrogenous nutrients, carbon and sulfur for the growth of *Pseudomonas.* Dipotassium phosphate buffers the medium, while magnesium sulfate provides the necessary cations for the activation of the fluorescein production.

Cultural characteristics after 18-24 hours at 35-37°C.

Organisms (ATCC)	Growth	Medium color
Pseudonmonas aeruginosa (27853)	+++	greenish-yellow

References:

1. United States Pharmacopeia, (1985). 21st Revision. United States Pharmacopeial Convention, Inc. Rockville, Maryland.
2. MacFaddin, J., (1985). Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria. Vol. 1. Williams & Wilkins. Baltimore, Maryland.
3. 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.