

APFA001

Pseudomonas Agar For Fluorescein

For detection of fluorescein production by *Pseudomonas* species.

Composition	Ingredients Gms / Litre
Casein enzymic hydrolysate	10.000
Proteose peptone	10.000
Dipotassium phosphate	1.500
Magnesium sulphate	1.500
Agar-Agar	15.000

Appearance:

Yellow Coloured clear to slightly opalescent gel form Sterile Pseudomonas Agar For Fluorescein in 90 mm Petri Plates

pH (at 25°C):

6.80 to 7.20

Principle:

Pseudomonas Agar (For Fluorescein) is in the U.S. Pharmacopeia for the detection of fluorescein production a water soluble, chloroform insoluble fluorescent pigment by *Pseudomonas* species. The medium enhances the elaboration of fluorescein by *Pseudomonas* and inhibits the Pyocyanin formation. The fluorescein pigment diffuses from the colonies of *Pseudomonas* into the agar and shows yellow fluorescent colouration. Some *Pseudomonas* strains produce small amounts of pyocyanin resulting in a yellow-green colouration. Tryptone and proteose peptone provide the essential nitrogenous nutrients, carbon, sulphur and trace elements for the growth of *Pseudomonas*. Dipotassium hydrogen phosphate buffers the medium while magnesium sulphate provides necessary cations for the activation of fluorescein production. Salt concentration exceeding 2% affects pigment production. UV illumination may be bactericidal, so make sure that there is good growth before placing culture under UV light. A pyocyanin-producing *Pseudomonas* strain will usually also produce fluorescein. It must, therefore, be differentiated from other simple fluorescent *Pseudomonads* by other means. Temperature can be a determining factor as most other fluorescent strains will not grow at 35°C. Rather, they grow at 25-30°C.

Quantity of Medium

30ml of medium in 90mm plates

Dose of Gamma irradiation

12to 17 KGy

Cultural Response

Cultural characteristics observed by using standard ATCC cultures after an incubation 24 hours at 30-35°C and recovery should be greater than 70%.

Sterility Test:

Passes release criteria.

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Shelf Life and Storage Conditions:

Use before expiry date on the label and store below 25°C.

Reference Pharmacopoeia:

USP/EP / BP / JP / IP

