



MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530
Fax: 440/337-1180
mailto: biotech@mpbio.com
web: <http://www.mpbio.com>

TECHNICAL INFORMATION

Catalog Number: 1008817

Pseudomonas Agar F

Synonym: King B medium

Purpose: For the detection of fluorescein production by Pseudomonas

Approximate formula in g/l:

Polipeptone.....	20.0	Dipotassium Phosphate.....	1.5
Magnesium Sulfate.....	1.5	Agar.....	14.0

Final pH 7.0 ± 0.2

Preparation: Suspend 37 g of the medium in one liter of deionized or distilled water. Add 10 ml of glycerol (catalog # 10044) and mix well. Heat with frequent agitation and boil for one minute. Do not overheat. Dispense and sterilize at 118° - 121°C (12-15 lbs psi) for 15 minutes. Cool to 45° - 50°C and dispense into Petri dishes. If tubed, allow to solidify in a slanted position.

Uses: Pseudomonas F Agar promotes fluorescein production (while pyocyanin production is inhibited) by Pseudomonas. Under UV stimulation fluorescein is demonstrated by a fluorescent yellow color diffused in the medium. When a greenish yellow color appears, it is due to small amounts of pyocyanin not totally suppressed. Cultures of pseudomonads exist which produce a pigment or fluorescein or both and, because of this situation, it is recommended to utilize both Pseudomonas F and Pseudomonas P (Pyocyanin) Agar to better identify the species.

Physical and Chemical Test

Appearance.....	fine powder	Solubility.....	w/o rest
Color.....	light beige	pH.....	7.0

Microbiology: The following typical results were obtained in the performance of the medium from type cultures after incubation at a temperature of 37°C and observed after 24 hour

<u>Microorganisms</u>	<u>Growth</u>	<u>Colony color</u>
Pseudomonas aeruginosa ATCC 9027	Satisfactory	Yellow-green
Pseudomonas aeruginosa ATCC 10145	Satisfactory	Yellow-green
Pseudomonas aeruginosa ATCC 17934	Satisfactory	-----
Pseudomonas aeruginosa ATCC 25619	Satisfactory	Yellow-green
Pseudomonas aeruginosa ATCC 27853	Satisfactory	Yellow-green

The pH after preparing the medium and at room temperature: 7.0 ± 0.2

Availability:

Catalog Number	Description	Size
1008817	Pseudomonas Agar F	500 g
1004417	Glycerol, Microbiological Grade	500 g

Bibliography:

– *J. Lab. and Clin. Med.*, v.44, 301 (1954) UPS XIX