

King A Medium (Pseudomonas P agar)

For the identification of *Pseudomonas*, it favours the production of pyocyanin

Formula in grams per liter:

Bacteriological Peptone	20,00	Potassium Sulfate	10,00
Magnesium Chloride	1,40	Bacteriological Agar	13,60

Final pH: 7,0 ± 0,2 at 25 °C

Preparation:

Suspend 45 grams of the medium in one liter of distilled water. Add 10 ml. of glycerin. Heat with frequent agitation and boil for 1 minute. Dispense into appropriate containers and sterilize by autoclaving at 121°C (15 lbs sp) for 15 minutes.

Uses:

Pseudomonas P Agar promotes the production of pyocyanin and/or pyorubin and inhibits fluorescein production by *Pseudomonas*. Pyocyanin produced by *Pseudomonas* gives a blue color diffusing into the medium. A greenish-blue color denotes a small amount of fluorescein production not totally inhibited.

Both *Pseudomonas P* and *Pseudomonas F* Agar should be used in parallel to differentiate the *Pseudomonas* species.

Incubate up to 7 days at 35°C and check for bacteriological growth after 24-48 and 72 hours and then after 6 days. Colonies of *Pseudomonas aeruginosa* will appear surrounded by a blue to green zone.

Microbiological Tests:

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



Billede mangler