

**TECHNICAL SHEET**

<b>PP022</b>	<b>Pseudomonas Pyocyanin Agar Plate</b>		
<b>Formula</b>			
<b>Ingredients:</b>		<b>gms/lit.</b>	
Peptic digest of animal tissue		20.00	
Potassium sulphate		10.00	
Magnesium chloride		1.40	
Agar		15.00	
Final pH (at 25°C): 7.0 ± 0.2			
<b>Directions:</b>			
Label the ready to use plate (PP022). Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.			
<b>Principle:</b>			
Peptone provides the carbon and nitrogen sources required for good growth. Glycerol is a carbon source. Magnesium chloride and potassium sulfate stimulate pyocyanin production. Agar is a solidifying agent. This medium enhances the elaboration of pyocyanin but inhibits the formation of fluorescein pigment. The fluorescein pigment diffuses from the colonies of Pseudomonas into the agar and shows blue coloration. Some Pseudomonas strains produce small amounts of fluorescein resulting in a blue-green coloration. Potassium sulphate and magnesium chloride, which enhances the pyocyanin production and suppresses the fluorescein production. 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.			
<b>(I) QC Tests</b>			
	pH:	7.0 ± 0.2	
	Color:	Yellow coloured medium.	
	Appearance:	Sterile Pseudomonas pyocyanin Agar in 90X15mm disposable plates.	
<b>(II) Sterility test</b>		Passes release criteria	
<b>(III) Q.C. Test Microbiological</b>			
Cultural characteristics observed after incubation at 35-37°C for 18-24 hours.			
	MICROORGANISM (ATCC)	GROWTH	COLOR OF COLONY
	Pseudomonas aeruginosa 17934	luxuriant	Blue green
	Pseudomonas aeruginosa 9027	luxuriant	Blue green

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<b>Precautions :</b>	1. In Vitro diagnostic use only.
	2. Read the label before opening the container
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
<b>Use:</b>	For detection of pyocyanin production by Pseudomonas species
<b>Storage:</b>	Store between 2-8°C. Use before expiry date on the label.
<b>Packing:</b>	10/20/50 disposable plates.

**Disclaimer:**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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