

TECHNICAL SHEET

AS009	Phenyl Alanine Agar Slant	
Formula		
Ingredients:	gms/lit.	
Yeast extract	3.00	
Sodium chloride	5.00	
DL-Phenylalanine	2.00	
Disodium phosphate	1.00	
Agar	15.00	
Final pH (at 25°C): 7.3 ± 0.2		
Directions:		
Streak the test inoculum aseptically into the slant and incubate at appropriate conditions.		
Principle:		
Yeast extract in the medium supports the growth of the organisms. Sodium chloride maintains osmotic equilibrium. The phenylalanine serves as the substrate for enzymes, which are able to deaminate it to form phenyl pyruvic acid. A recommended technique is to inoculate the slant surface with plenty of inoculum and incubate it for 12-16 hours. After incubation, add 0.2 ml of 10% ferric chloride solution so that the solution floods all over the growth. The addition of (0.2 ml 3-5 drops) of a 10% aqueous ferric chloride solution (or a 12% aqueous ferric chloride solution acidified with 2.5 ml of concentrated HCl per 100 ml of reagent) to the cultures following incubation results in the appearance of a light to deep green color (positive reaction) or no color change (negative reaction).		
(I) QC Tests		
pH:	7.3 ± 0.2	
Color:	Yellow coloured slant.	
Appearance:	Sterile Phenylalanine Agar in disposable slants.	
(II) Sterility test		
Passes release criteria		
(III) Q.C. Test Microbiological		
Cultural characteristics observed after incubation at 35-37°C for 18-24 hrs.		
MICROORGANISM (ATCC)	GROWTH	PHENYLALANINE DEAMINASE
Enterobacter aerogenes 13048	Luxuriant	Negative -no change in color after addition of 10% Ferric chloride
Escherichia coli 25922	Luxuriant	Negative -no change in color after addition of 10% Ferric chloride
Proteus vulgaris 13315	Luxuriant	Positive : green colouration after addition of 10% Ferric chloride.
Proteus mirabilis 25933	Luxuriant	Positive : green colouration after addition of 10% Ferric chloride.

Refer disclaimer Overleaf

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Precautions :	1. In Vitro diagnostic use only. 2. Read the label before opening the container
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
Use:	For differentiation of Proteus and Providencia group of organisms from other members of Enterobacteriaceae on the basis of their ability to form phenyl pyruvic acid from phenylalanine.
Storage:	Store between 2-8°C. Use before expiry date on the label.
Packing:	10/25 disposable slants.

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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