

TECHNICAL SHEET

AS007	Motility Indole Lysine Agar Slant					
Formula						
Ingredients:						
	gms/lit.					
Peptic digest of animal tissue	10.00					
Casein enzymic hydrolysate	10.00					
Yeast extract	3.00					
L-Lysine hydrochloride	10.00					
Dextrose	1.00					
Ferric ammonium citrate	0.50					
Bromo cresol purple	0.02					
Agar	2.00					
Final pH (at 25°C): 6.6 ± 0.2						
Directions:						
Stab the test inoculum aseptically into the butt and incubate at appropriate conditions.						
Principle:						
Peptic digest of animal tissue and Casein enzyme hydrolysate provide the carbon and nitrogen sources required for good growth of a wide variety of organisms. Yeast Extract provides vitamins and cofactors required for growth. Lysine Hydrochloride is present as a substrate to detect lysine decarboxylase or lysine deaminase activity. Dextrose is an energy source. Ferric Ammonium Citrate is an H ₂ S indicator. Bromo Cresol Purple is a pH indicator. Agar is a solidifying agent used at a low concentration. Motility, lysine deamination and lysine decarboxylation reactions are read before testing indole reaction, since addition of Kovacs reagent causes the color of the medium to change to yellow. Therefore, positive lysine decarboxylase reaction could be misinterpreted as negative.						
(I) QC Tests						
pH:	6.6 ± 0.2					
Color:	Reddish purple coloured medium.					
Appearance:	Sterile Motility Indole Lysine Agar in disposable slants.					
(II) Sterility test						
Passes release criteria						
(III) Q.C. Test Microbiological						
Cultural characteristics observed after incubation at 22-28°C for 18-24 hours.						
MICROORGANISM (ATCC)	INOCULUM (CFU)	MOTILITY	INDOLE PRODUCTI ON	LYSINE DEAMIN ASE	LYSINE DECARB OXYLAS E	
# Klebsiella aerogenes 13048 (00175*)	50-100	positive, growth away from stab line	negative	negative	positive reaction, purple	
Escherichia coli 25922	50-100	positive, growth away from stabline	positive reaction, redring at the interface of the medium on addition ofKovac's reagent	negative	positive reaction, purple	

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Klebsiella pneumoniae 13883 (00097*)	50-100	negative, growth along the stab line	occasional reaction	negative	positive reaction, purple
Proteus mirabilis 25933	50-100	positive, growth away from stabline	positive reaction, redring at the interface of the medium on addition ofKovac's reagent	positive reaction, red brown colour reaction at the top	negative
Proteus vulgaris 13315	50-100	positive, growth away from stabline	positive reaction, redring at the interface of the medium on addition ofKovac's reagent	positive reaction, red brown colour reaction at the top	negative
Salmonella Enteritidis 13076 (00030*)		positive, growth away from stabline	negative	negative	positive reaction, purple
Shigella flexneri 12022 (00126*)	50-100	negative, growth alongthe stabline	occasional reaction	negative	negative

Refer disclaimer Overleaf

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:	Recommended for identification of members of Enterobacteriaceae on the basis of motility, lysine decarboxylase, lysine deaminase and indole production.
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. The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.