

TECHNICAL SHEET

B716	SELECTIVE LYSINE AGAR				
Formula					
Ingredients :		gms/lit.			
Peptic digest of animal tissue		5.00			
Yeast extract		3.00			
L-Lysine hydrochloride		10.00			
Bile salts mixture		1.50			
Dextrose		3.50			
Crystal violet		0.001			
Bromo cresol purple		0.03			
Sulphapyridine		0.30			
Agar		15.00			
Final pH (at 25°C) : 6.8 ± 0.2					
Directions :					
Suspend 38.33 gms. in 1000ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. DO NOT OVERHEAT.					
Principle :					
Peptic digest of animal tissue, yeast extract provide nitrogenous compounds, sulphur, vitamin B complex and other essential growth nutrients. Dextrose serve as an energy source. Bromo cresol purple is the pH indicator that changes from purple to yellow at acidic pH. Organisms such as Salmonella, which are able to decarboxylate lysine reverse this acid reaction and form blue – green, blue or purple colonies. Bile salts mixture and Sulphapyridine inhibit gram – positive organisms.					
QC Tests – (I) Dehydrated Medium					
Colour :		Yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		6.8 ± 0.2			
Colour (post autoclaving/heating) :		Dark purple			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 18 - 24 hrs at 35-37°C.					
MICROORGANISM (ATCC)		GROWTH		COLOUR OF COLONY	
Salmonella typhimurium (14028)		Luxuriant		Blue –green	
Shigella dysenteriae (9361)		None to poor		If any, yellow – green	
Staphylococcus aureus (25923)		None		-	
Precautions :		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.			
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 selective isolation and identification of Salmonella species.			
Storage :		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.			
Packing :		500 gm. bottle			
Product profile:		Reconstitution		Quantity on Preparation (500g)	
		pH (25°C)		Supplement	
		Sterilization			
B716	38.33g/l	13.044L	6.8 ± 0.2	NIL	DO NOT OVERHEAT.

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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