

<b>B609</b>	<b>MANNITOL LYSINE AGAR</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Peptic digest of animal tissue		10.00			
Yeast extract		5.00			
Beef extract		2.00			
Sodium chloride		4.00			
Mannitol		3.00			
L-Lysine hydrochloride		5.00			
Sodium thiosulphate		4.00			
Ferric ammonium citrate		1.00			
Brilliant green		0.0125			
Crystal violet		0.01			
Agar		15.00			
Final pH (at 25°C) : 6.8 ± 0.2					
<b>Directions :</b>					
Suspend 49 gms. in 1000ml distilled water. Boil to dissolve the medium completely. DO NOT AUTOCLAVE. Dispense as desired.					
<b>Principle :</b>					
Peptic digest of animal tissue, beef extract, yeast extract provide essential nutrients for the growth of Salmonella. Mannitol is the fermentable carbohydrate in the medium while L-Lysine is the amino acid. Sodium thiosulphate and ferric ammonium citrate help in H <sub>2</sub> S generation and interrupt blackening of the Salmonella colonies. Brilliant green dye in the medium inhibits gram - positive and majority of gram - negative organisms.					
<b>QC Tests - (I) Dehydrated Medium</b>					
Colour :		Green			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		6.8 ± 0.2			
Colour (post autoclaving/heating) :		Yellow			
Clarity (post autoclaving/heating) :		Clear			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 18 - 48 hrs. at 35-37°C.					
MICROORGANISM (ATCC )		GROWTH		COLOUR OF COLONY	
Salmonella enteritidis (13076 )		Luxuriant		Black centred	
Salmonella paratyphi B		Luxuriant		Black centred	
Salmonella typhi ( 6539 )		Luxuriant		Black centred	
Salmonella typhimurium (14028)		Luxuriant		Black centred	
Escherichia coli (25922)		Inhibited		-	
Staphylococcus aureus (25923)		Inhibited		-	
<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<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 selective isolation of Salmonella species other than Salmonella typhi and Salmonella paratyphi A.				
<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>	500 gm bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B609</b>	49g/l	10.20L	6.8 ± 0.2	NIL	DO NOT AUTOCLAVE

**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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