

TECHNICAL SHEET

B1052	GASSNER LACTOSE AGAR					
Formula						
Ingredients :		gms/lit.				
Meat peptone		7.00				
Sodium chloride		5.00				
Lactose		50.00				
Metachrome yellow		1.25				
Water blue		0.625				
Agar		13.00				
Final pH (at 25°C) : 7.2 ± 0.2						
Directions :						
Suspend 76.87 gms in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
Principle :						
The medium is also known as Water – blue Metachrome- yellow Lactose Agar. Metachrome – yellow primarily inhibits gram – positive microorganisms present in the food materials. Enteric pathogens ferment lactose to produce the acid and is indicated by the water blue indicator which turns blue in acidic range and colourless in the alkaline range. Original colour of the prepared medium is green, but in the acidic pH range it becomes blue – green to blue while at alkaline range the yellow colour of metachrome yellow becomes increasingly apparent. Medium ingredients like meat peptone and sodium chloride provide nutrients and maintains osmotic balance respectively.						
QC Tests – (I) Dehydrated Medium						
Colour :		Greenish yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.2 ± 0.2				
Colour (post autoclaving/heating) :		Dark green				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18 –48 hrs. at 35-37°C.						
MICROORGANISM (ATCC)		GROWTH		COLOUR OF COLONY		
Escherichia coli (25922)		Good – luxuriant		Dark green		
Klebsiella pneumoniae (13883)		Good – luxuriant		Mucoid green		
Proteus mirabilis (25933)		Good – luxuriant		Yellowish green		
Salmonella enteritidis (13076)		Good – luxuriant		Yellow		
Salmonella typhi (6539)		Good – luxuriant		Yellow		
Salmonella typhimurium (14028)		Good – luxuriant		Yellow		
Shigella flexneri (12022)		Good – luxuriant		Yellow		
Staphylococcus aureus (25923)		Inhibited		-		
Enterococcus faecalis (29212)		Inhibited		-		
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 detection and isolation of pathogenic Enterobacteriaceae from food stuffs and other materials.				
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
B1052		76.87g/l	6.50 L	7.2 ± 0.2	Nil	121°C / 15 minutes

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 BIOMARK LABORATORIES publications.

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