

BIOMARK Laboratories-INDIA

www.biomarklabs.com

TECHNICAL SHEET

B1277	VIOLET RED BILE AGAR WITH GLUCOSE AND LACTOSE				
Formula					
Ingredients :					
	gms/lit.				
Peptic digest of animal tissue	7.00				
Yeast extract	3.00				
Sodium chloride	5.00				
Bile salts mixture	1.50				
Glucose	10.00				
Lactose	10.00				
Neutral red	0.03				
Crystal violet	0.002				
Agar	12.00				
Final pH (at 25°C) : 7.4 ± 0.2					
Directions :					
Suspend 48.53 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE. Mix well and pour into sterile Petri plates.					
Principle :					
Peptic digest of animal tissue and yeast extract provide nitrogenous compounds and other nutrients essential for bacterial metabolism. This media is selective due to presence of the inhibitors; bile salts mixture and crystal violet. Crystal violet inhibits gram-positive organisms especially staphylococci. Neutral red indicator helps to detect lactose and glucose fermentation. Lactose and glucose fermenting strains grow as red or pink coloured colonies and may be surrounded by a zone of acid precipitated bile. Sodium chloride maintains the osmotic equilibrium in the medium. The red colour is due to absorption of neutral red and a subsequent colour change of the dye when the pH of medium falls below 6.8.					
QC Tests – (I) Dehydrated Medium					
Colour :	Light yellow to pink				
Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium					
pH (post autoclaving/heating) :	7.4 ± 0.2				
Colour (post autoclaving/heating) :	Reddish 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			
Enterobacter aerogenes (13048)	Good -Luxuriant	Pink - red			
Escherichia coli (25922)	Good -Luxuriant	Pink – red w/bile ppt.			
Salmonella enteritidis (13076)	Good -Luxuriant	Light pink			
Staphylococcus aureus (25923)	Inhibited	--			
Escherichia coli (8739)	Good -Luxuriant	Pink – red w/bile ppt.			
Staphylococcus aureus (6538)	Inhibited	--			
Escherichia coli (NCTC 9002)	Good -Luxuriant	Pink – red w/bile ppt.			
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 :	It is recommended for selective isolation and enumeration of coli-aerogenes bacteria in water, milk and other dairy food products.				
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
B1277	48.53 g/l	10.30L	7.4 ± 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 BIOMARK LABORATORIES 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.