

TECHNICAL SHEET

B107	AZIDE DEXTROSE BROTH					
Formula						
Ingredients:			gms/lit.			
Peptone, special			15.00			
Meat extract B#			4.50			
Dextrose			7.50			
Sodium chloride			7.50			
Sodium azide			0.20			
#- Equivalent to Beef extract						
Final pH (at 25°C) : 7.2 ± 0.2						
Directions :						
Suspend 34.7 grams in 1000 ml distilled water for preparing single strength broth or use 69.4 grams in 1000 ml distilled water for double strength broth. Heat, if necessary, to ensure complete solution. Dispense in test tubes and sterilize by autoclaving at 118°C for 15 minutes.						
Principle :						
It is recommended by APHA for enumeration of faecal Streptococci by MPN technique. It is a highly nutritious medium due to the presence of nutrient rich peptone special, Meat extract B and dextrose. Sodium azide inhibits growth of gram-negative bacteria, allowing Enterococci to grow. Enterococci are more resistant to chlorine in water, hence are better indicators of sewage pollution than E.coli.						
QC Tests - (I)Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		7.2 ± 0.2				
Colour (post autoclaving/heating) :		Amber				
Clarity (post autoclaving/heating) :		Clear				
(III)Q.C. Test Microbiological						
Cultural characteristics observed after 18-24 hrs. at 35-37°C.						
MICROORGANISM (ATCC)			GROWTH			
Enterococcus faecalis (29212)			Good-luxuriant			
Escherichia coli (25922)			Inhibited			
Precautions :		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. 3. IRRITANT. Harmful by inhalation and if swallowed. Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. Target organ(s) : Cardiovascular, Lungs, Nerves.				
Limitations :		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. 2. Azide Dextrose Broth is used to detect presumptive evidence of fecal contamination. Further biochemical testing must be done for confirmation. 3. For inoculum sizes of 10ml or larger, use double strength medium to prevent dilution of ingredients.				
Use :		For detection and enumeration of Streptococci in water, sewage, food and other materials suspected of sewage contamination.				
Warning:		Sodium azide has a tendency to form explosive metal azides with plumbing materials. It is advisable to use enough water to flush off the disposables.				
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
B107	34.7 g/l	14.40 L	7.2 ± 0.2	Nil	118 °C /15 min.	

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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