

TECHNICAL SHEET

B1029	ESCULIN AZIDE BROTH				
Formula					
Ingredients :		gms/lit.			
Peptic digest of animal tissue	20.00				
Yeast extract		5.00			
Bile salts		10.00			
Sodium chloride		1.00			
Esculin	1.00				
Ferric ammonium citrate		0.50			
Sodium azide		0.25			
Final pH (at 25°C) : 7.2 ± 0.2					
Directions :					
Suspend 37.8 gms. in 1000 ml. distilled water. Heat, if necessary to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbspressure (121°C) for 15 minutes.					
Principle :					
Peptic digest of animal tissue and yeast extract provide nitrogenous nutrients to the organisms. Bile salts inhibit other gram – positive bacteria while sodium azide inhibits gram – negative bacteria. Streptococci hydrolyze esculin to esculetin and dextrose. Esculetin and ferric ammonium citrate forms dark brown to black complex, imparting dark brown colour to the broth.					
QC Tests – (I)Dehydrated Medium					
Colour :	Cream to light 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	ESCULIN	HYDROLYSIS		
Streptococcus bovis (27960)	Luxuriant		+		
Streptococcus faecalis (29212)	Luxuriant		+		
Streptococcus pyogenes (19615)	Poor		-		
Escherichia coli (25922)	Inhibited		-		
Key : + = blackening of the medium					
- = no change					
Precautions :	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. 3. Warning : Sodium azide has a tendency to form explosive metal azides with plumbing It is advisable to use enough water to flush off the disposables.				
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 cultivation and identification of Streptococci.				
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
B1029	37.8g/l	13.22L	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 BIOMARKLABORATORIES publications.

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