

TECHNICAL SHEET

B947	BORIC ACID BROTH					
Formula						
Ingredients :		gms/lit.				
Proteose peptone		10.00				
Lactose		5.00				
Dipotassium phosphate		12.20				
Monopotassium phosphate		4.10				
Boric acid		3.25				
Final pH (at 25°C) : 7.0 ± 0.2						
Directions :						
Suspend 34.6 gms. in 1000 ml. distilled water. Dispense in test tubes with inverted Durham's tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. For inocula larger than one ml. the medium should be prepared in proportionately greater concentration. A pH indicator may be added if desired.						
Principle :						
Boric Acid Broth was first designed by Vaughn, Levine and Smith for use as an enrichment medium for detecting E.Coli in food and water. This medium is used for detection and presumptive identification of E. Coli on the basis of its ability to grow at 43°C and produce gas from lactose in presence of boric acid.						
QC Tests - (I) Dehydrated Medium						
	Colour :	Cream to light beige				
	Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium						
	pH (post autoclaving/heating) :	7.0 ± 0.2				
	Colour (post autoclaving/heating) :	Cream to light amber				
	Clarity (post autoclaving/heating) :	Clear				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18 -24 hrs at 43°C.						
	MICROORGANISM (ATCC)	GROWTH	GAS			
	Escherichia coli (25922)	Luxuriant	+			
	Enterobacter aerogenes (13048)	Inhibited	-			
	Salmonella typhi (6539)	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 the detection and presumptive identification of E.Coli, on the basis of the ability of this organisms to grow at 43°C and form gas from lactose in the presence of boric acid.						
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
B947		34.6g/l	14.450L	7.0 ± 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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