

TECHNICAL SHEET

B458	PEPTONE SORBITOL BILE BROTH					
Formula						
Ingredients :		gms/lit.				
Peptic digest of animal tissue		5.00				
Sorbitol		10.00				
Disodium phosphate		8.23				
Monosodium phosphate		1.20				
Bile salt mixture		1.50				
Sodium chloride		5.00				
Final pH (at 25°C) : 7.6 ± 0.2						
Directions :						
Suspend 30.93 gms. in 1000ml. distilled water.Heat to boiling to dissolve the medium completely. Dispense 100 ml into Wheaton bottles. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
Principle :						
Peptone Sorbitol Bile broth contains peptic digest of animal tissue which provides nitrogenous growth factors and trace ingredientsfor the growth of Yersinia enterocolitica. Sorbitol is polyhydric alcohol corresponding to glucose which is an important substrate in biochemical characterization tests for bacteria. Yersinia enterocolitca can degrade sorbitol while Yersinia pestis and Yersinia pseudotuberculosis can not utilize it. Phosphates maintains the buffering action of the medium while mixture of bile salts inhibits majority of the gram – positive organisms. The pH of the medium is slightly alkaline as Yersinia species are tolerant to dilute alkali.						
QC Tests - (I)Dehydrated Medium						
Colour :		Cream to light yellow				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		7.6 ± 0.2				
Colour (post autoclaving/heating) :		Light amber to light yellow				
Clarity (post autoclaving/heating) :		Clear				
(III)Q.C. Test Microbiological						
Cultural characteristics observed after 24-48 hrs.at 32°C.						
MICROORGANISM (ATCC)		GROWTH	SORBITOL UTILIZATION			
Yersinia enterocolitica (27729)		Luxuriant	+			
Yersinia pseudotuberculosis (29833)		Good – luxuriant	-			
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 identification of Yersinia enterocolitica from dairy 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
B458	30.93g/l	16.165L	7.6 ± 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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