

TECHNICAL SHEET

B447	C. PERFRINGENS SPORULATION BROTH				
Formula					
Ingredients :		gms/lit.			
Tryptose		15.00			
Yeast extract		3.00			
Starch,soluble		3.00			
Magnesium sulphate		0.10			
Sodium thioglycollate		1.00			
Disodium phosphate		11.00			
Final pH (at 25°C) : 7.8 ± 0.2					
Directions :					
Suspend 33.1 gms. in 1000 ml. distilled water. Heat if necessary to ensure complete solution. Dispense 20 ml amounts in 20 X 150 mm screw capped test tubes. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Just before use heat the medium in flowing steam for 20 minutes.					
Principle :					
The medium contains the ingredients like tryptose, yeast extract and starch which not only support the growth of Clostridium perfringens but also stimulate spore formation in presence of magnesium sulphate. Sodium thioglycollate in the medium helps to maintain the anaerobic condition. Magnesium sulphate and disodium phosphate provide ions to the organism and helps in maintaining buffering conditions in the medium.					
QC Tests – (I)Dehydrated Medium					
Colour :		Light yellow			
Appearance :		Homogeneous Free Flowing powder			
(II)Rehydrated medium					
pH (post autoclaving/heating) :		7.8± 0.2			
Colour (post autoclaving/heating) :		Medium amber			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
(III)Q.C. Test Microbiological					
Cultural characteristics observed after 24 –48 hrs. at 35-37°C, when incubated anaerobically.					
MICROORGANISM (ATCC)		GROWTH	SPORULATION		
Clostridium perfringens (12924)		Luxuriant	+		
Clostridium sporogenes (11437)		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 promoting sporulation in Clostridium perfringens.			
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
B447		33.1g/l	15.10L	7.8± 0.2	NIL
					Sterilization
					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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