

TECHNICAL SHEET

B446	CLOSTRIDIUM BOTULINUM ISOLATION AGAR BASE					
Formula						
Ingredients :		gms/lit.				
Casein enzymic hydrolysate		40.00				
Yeast extract		5.00				
Dextrose		2.00				
Disodium phosphate		5.00				
Sodium chloride		2.00				
Magnesium sulphate		0.01				
Agar		20.00				
Final pH (at 25°C) : 7.4 ± 0.2						
Directions :						
Suspend 37 gms in 450 ml. distilled water. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 50-55°C and aseptically add sterile 50 ml Egg Yolk Emulsion and reconstituted contents of 1 vial of CBI supplement. Mix well and pour into sterile petri plates.						
Principle :						
Casein enzymic hydrolysate and yeast extract supply amino acids and other nitrogenous substances and vitamin B complex. Dextrose is the fermentable carbohydrate. Disodium phosphate helps in buffering the medium while magnesium sulphate helps for the sporulation of the organisms and sodium chloride maintains osmotic equilibrium of the medium. The antibiotic supplement containing Cycloserine, Sulphamethoxazole and Trimethoprim makes the medium very selective as these are broad spectrum antibiotics. Egg yolk emulsion helps in detecting lecithinase, lipase and proteolytic activity. Lecithinase degrades lecithin present in the egg yolk producing an insoluble, opaque precipitate in the medium surrounding the growth. Lipase break down free fats present in the egg yolk causing an iridescent (oil on water) sheen to form on the surface of the colonies.						
QC Tests - (I) Dehydrated Medium						
	Colour :	Cream to light yellow				
	Appearance:	Homogeneous Free Flowing powder				
(II) Rehydrated medium						
	pH (post autoclaving/heating) :	7.4 ± 0.2				
	Colour (post autoclaving/heating) :	a) Basal medium : yellow b) With addition of egg yolk emulsion & CBI Supplement : Light yellow.				
	Clarity (post autoclaving/heating) :	a) Slightly opalescent b) Opaque				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 48 hrs. at 35-37°C when incubated anaerobically.						
	MICROORGANISM (ATCC)	GROWTH	LECITHINASE			
	Clostridium botulinum (25763)	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 selective isolation of Clostridium botulinum from food samples.				
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
B446		74.0g/l	6.756 L	7.4 ± 0.2	Egg Yolk Emulsion and CBI supplement.	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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