

<b>B145</b>	<b>CLOSTRIDIUM DIFFICILE AGAR BASE</b>				
<b>Formula</b>					
<b>Ingredients :</b> <span style="float:right"><b>gms/lit.</b></span>					
Proteose peptone	40.00				
Disodium phosphate	5.00				
Monopotassium phosphate	1.00				
Magnesium sulphate	0.10				
Sodium chloride	2.00				
Fructose	6.00				
Agar	15.00				
Final pH (at 25°C) : 7.4 ± 0.2					
<b>Directions :</b>					
Suspend 34.55 gms. in 500 ml. distilled water. Heat gently to boil to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 50°C. Aseptically add rehydrated contents of 1 vial of Clostridium Difficile Supplement (BF039) together with 7%(v/v) defibrinated Horse blood or Sheep blood. Mix well and pour into sterile petri plates.					
<b>Principle :</b>					
Proteose peptone acts as a source of nitrogen. The selective agents D-Cycloserine and Cefoxitin used in this medium inhibit the growth of the majority of Enterobacteriaceae and also Enterococcus faecalis, Staphylococci, gram – negative anaerobic bacilli and Clostridium species other than Clostridium difficile which may be found abundantly in faecal samples. Addition of 7% v/v horse blood to the base increases the recovery of Clostridium difficile and also increases its colony size. Agar is the solidifying agent.					
<b>QC Tests – (I)Dehydrated Medium</b>					
Colour :	Cream to yellow				
Appearance :	Homogeneous Free Flowing powder				
<b>(II)Rehydrated medium</b>					
pH (post autoclaving/heating) :	7.4 ± 0.2				
Colour (post autoclaving/heating) :	A) Basal medium : Light amber B) (After addition of 7% v/v defibrinated horse blood): Cherry red				
Clarity (post autoclaving/heating) :	A) Slightly opalescent gel. B) Opaque				
<b>(III)Q.C. Test Microbiological</b>					
Cultural characteristics observed under anaerobic condition with added Clostridium Difficile Supplement(BF039) and 7% v/ v defibrinated horse blood, after an incubation at 35-37°C for 48 hours..					
MICROORGANISM (ATCC )	GROWTH*	COLOUR OF COLONY			
Clostridium difficile (11204)	Good-luxuriant	Grayish-white			
Escherichia coli (25922)	Inhibited	--			
Shigella flexneri (12022)	Inhibited	--			
Staphylococcus aureus (25923)	Inhibited	--			
Key : * = with the addition of selective supplement					
<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>	For selective isolation of Clostridium difficile from food and pathological specimens.				
<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>	500 gm bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B145</b>	69.1g/l	7.23L	7.4 ± 0.2	Clostridium Difficile Supplement (BF039) with 7%(v/v) defibrinated Horse blood or Sheep blood.	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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.