

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>BH1161</b>	<b>COLUMBIA AGAR</b>					
<b>Formula</b>						
<b>Ingredients:</b>		<b>gms/lit.</b>				
Pancreatic digest of casein	10.00					
Meat Peptic digest	5.00					
Heart pancreatic digest	3.00					
Yeast extract	5.00					
Maize starch	1.00					
Sodium chloride	5.00					
Agar	15.00					
If necessary, adjust the pH so that after sterilization it is 7.3±0.2						
<b>Directions :</b>						
Suspend 44 grams in 1000 ml purified/distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes or as per validated cycle. Cool to 45-50°C, if required add the rehydrated contents of 1 vial of Gentamicin Selective Supplement (BF164). Mix well and pour into sterile Petri plates.						
<b>Principle :</b>						
This medium is highly nutritious as it contains, Pancreatic digest of casein, Meat Peptic digest extract, Heart pancreatic digest and yeast extract provides carbonaceous and nitrogenous substances, long chain amino acids, vitamins of B complex group and other essential nutrients for the luxuriant growth of fastidious as well as non-fastidious organisms. Sodium chloride maintains osmotic balance of medium. Maize starch acts as an energy source and also neutralizes toxic metabolites if produced. It is used in detection of Clostridia from pharmaceutical products. Gentamicin (BF164) inhibits a number of contaminating gram-negative organisms and Staphylococcus species.						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour :	Cream to light yellow					
Appearance :	Homogeneous Free Flowing powder					
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :	7.3 ± 0.2					
Colour (post autoclaving/heating) :	Light amber					
Clarity (post autoclaving/heating) :	Clear to slightly opalescent gel					
Growth Promotion Test	Growth Promotion was carried out in accordance with the harmonized method of USP/EP/BP/JP, and growth was observed under anaerobic conditions after an incubation at 30-35°C for 24-48 hours. Recovery rate is considered as 100% for bacteria growth on Casein Soybean Digest Agar (Soybean Casein Digest Agar).					
Growth promoting properties	Growth of microorganism comparable to that previously obtained with previously tested and approved lot of medium occurs at the specified temperature for not more than the shortest period of time specified inoculating ≤100 cfu under anaerobic conditions (at 30-35°C for ≤48 hours).					
<b>(III) Cultural Response</b>						
MICROORGANISM (ATCC)	INOCULUM (CFU)	GROWTH	OBSERVED LOT VALUE (CFU)	RECOVERY	INCUBATION TEMPERATURE	INCUBATION PERIOD
<b>Growth Promoting</b>						
Clostridium sporogenes (19404)	50 -100	Luxuriant	25 -100	≥50 %	30 -35 °C	≤48 hrs
Clostridium sporogenes (11437)	50 -100	Luxuriant	25 -100	≥50 %	30 -35 °C	≤48 hrs
Bacteroides vulgatus (8482)	50 -100	Luxuriant	25 -100	≥50 %	30 -35 °C	≤48 hrs
<b>Additional Microbiological testing</b>						
Clostridium perfringens (13124)	50 -100	Luxuriant	25 -100	≥50 %	30 -35 °C	≤48 hrs
Bacteroides fragilis (23745)	50 -100	Luxuriant	25 -100	≥50 %	30 -35 °C	≤48 hrs

Refer disclaimer Overleaf

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<b>Precautions :</b>	1. For Laboratory Use.				
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
	3. Some Clostridium species may show poor growth due to nutritional variations.				
	4. Further biochemical tests must be carried out for complete identification.				
<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 detection of Clostridium sporogenes from pharmaceutical products in accordance with the microbial limit testing by harmonized methodology of USP/EP/BP/JP/IP (Medium 15)				
<b>Storage :</b>	Dehydrated medium-Between 10-30°C Prepared medium-Between 20 to 30°C.				
<b>Packing :</b>	500 gm bottle				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>BH1161</b>	44.0 g/l	11.36 L	7.3 ± 0.2	Gentamycin selective supplement (BF164)	121°C/ 15 min.

**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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