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TECHNICAL SHEET  B544 GLUCOSE STARCH AGAR								
Ingredients:	gms/lit.							
Proteose peptone	15.00							
Dextrose	10.00							
Starch, soluble	5.00							
Sodium chloride	5.00							
Disodium hydrogen phosphate	3.00							
Gelatin	20.00							
Agar	10.00							
Final pH (at 25°C): 7.2 <u>+</u> 0.2								
Directions:	· 1/1' -'11 1 - TT	1 22	1. 1. 1					
Suspend 68.0 grams in warm 1000 ml purifi								
Dispense in tubes and sterilize by autoclavir	ng at 15 lbs pressure (	121°C) for 30 minutes. Allow	the tubed medium to cool in an					
upright position.								
Principle:	C C	/	There are a series as a siding					
Clostridial species are one of the major ca								
spore-forming rods that occur naturally in								
the most potent toxins in existence; Clostn								
commonly found in wound infections and								
many bacterial pathogens. The major viru								
invasion of the host gut, and contributes to								
used as a basal medium, which with the ac		salicin and phenol red indica	tor is used for detecting					
<i>C.perfringens</i> . This medium is also recom								
The medium contains proteose peptone, w								
fermentable carbohydrate source and is fe								
acid and gas production by only some stra								
drops of phenol red, the pH indicator, whi								
Gelatin is liquefied by C. perfringens with	hin 48 hours. Sodiun	n chloride maintains the osmo	otic balance of the medium.					
QC Tests - (I)Dehydrated Medium								
Colour :		Cream to Beige						
Appearance :	Homogene	Homogeneous Free Flowing powder						
(II)Rehydrated medium								
pH (post autoclaving/heating):		$7.2 \pm 0.2$						
Colour (post autoclaving/heating)		Light amber						
Clarity (post autoclaving/heating)	: Clear to sl	Clear to slightly opalescentgel forms in tubes as butts						
(III)Q.C. Test Microbiological								
Cultural characteristics observed a		at 35-37°C for 24-72 ho	urs. Dextrose fermentation					
is detected using phenol red indica		CALTOTAL	DAFFINGSE					
MICROORGANISM (ATCC )	GROWTH	SALICIN (24 HOURS)	RAFFINOSE (72 HOURS)					
Clostridium perfringens (12924)	Luxuriant	-	A					
Clostridium paraperfringens	Luxuriant	AG	-					
Escherichia coli (25922)	Luxuriant	-	-					
Key: A = Acid production AG = Acid production								
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For Laboratory Use.
 Follow proper, established laboratory procedures in handling and disposing of infectious materials.

Precautions:

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Limitations:	1. Since the	nutritional	requirem	ents of org	janisms vary, s	ome strains may b		
	encountered that fail to grow or grow poorly on this medium.							
Use:	Used as a basal medium with the addition of salicin, raffinose and phenol red for							
	detection of Clostridium perfringens.							
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.							
Packing:	500 gm bottle							
<b>Product profile:</b>	Reconstitution	Quantity on		pH (25°C)	Supplement	Sterilization		
		Preparation	(500g)					
B544	68g/l	7.35	L	$7.2 \pm 0.2$	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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