

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B311	SABOURAUD DEXTROSE MALTOSE BROTH				
Formula					
Ingredients :		gms/lit.			
Casein enzymic hydrolysate		5.00			
Peptic digest of animal tissue		5.00			
Dextrose		10.00			
Maltose		10.00			
Final pH (at 25°C) :		5.4 ± 0.2			
Directions :					
Suspend 30.0 grams in 1000 ml. distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. DO NOT OVERHEAT. Mix well and dispense as desired.					
Principle :					
Casein enzymic hydrolysate and peptic digest of animal tissue provide nitrogen, vitamins, minerals, amino acids and growth factors. Dextrose and maltose provide an energy source for the growth of microorganisms. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens. The acid reaction of the final medium is inhibitory to a large number of bacteria making it particularly useful for cultivating fungi and aciduric microorganisms.					
QC Tests – (I) Dehydrated Medium					
Colour :		Cream to light yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		5.4 ± 0.2			
Colour (post autoclaving/heating) :		Light amber to light yellow			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after an incubation at 25-30°C for upto 5 days.					
MICROORGANISM (ATCC)		GROWTH			
Aspergillus niger (16404)		Luxuriant			
Candida albicans (10231)		Luxuriant			
Pencillium notatum (10108)		Luxuriant			
Trichophyton mentagrophytes (9533)		Luxuriant			
Trichophyton gallinae (22243)		Luxuriant			
Trichophyton rubrum (28191)		Luxuriant			
Trichopyton ajelloi (24885)		Luxuriant			
Saccharomyces cerevisiae (9763)		good-luxuriant			
Escherichia coli (25922)		Good-luxuriant	(inhibited on media with low pH)		
Lactobacillus casei (9595)		good-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. 2. Avoid overheating a medium with an acidic pH because this often causes a soft medium.				
Use :	It is used for the cultivation of molds, yeasts and aciduric organisms as well as testing antimycotic substances.				
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
B311	30g/l	16.666L	5.4 ± 0.2	NIL	121°C / 15 minutes

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