BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B088	**TOC AGAR**				
Formula					
Ingredients:		**gms/lit.**			
Ox bile		10.00			
Sorbitan monooleate 80		10.00			
Caffeic acid		0.30			
Agar		20.00			
Final pH (at 25°C): 6.5 ± 0.2					
Directions:					
Suspend 40.3 grams in 1000 ml distilled water. Mix thoroughly. Gently heat and bring to boiling. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and pour into sterile Petri plates.					
Principle:					
C. albicans and C. stellatoides may be presumptively identified on this medium by the formation of germ tubes and chlamydospores. A combination of sorbitan monooleate 80 and oxbile promotes their rapid, sequential development. C. neoformans may be identified by the production of a characteristic brown pigment on this medium. Caffeic acid is the substrate for phenol oxidase, an enzyme produced only by C. neoformans. The subsequent enzymatic reaction produces melanin, which is absorbed by the yeast cell wall resulting in tan to brown pigmentation.					
QC Tests – (I)Dehydrated Medium					
	Colour:	Cream to yellow			
	Appearance:	Homogeneous Free Flowing powder			
(II)Rehydrated medium					
	pH (post autoclaving/heating) :	6.5 ± 0.2			
	Colour (post autoclaving/heating):	Yellow			
	Clarity (post autoclaving/heating):	Clear to slightly opalescent			
(III)Q.C. Test Microbiological					
	Cultural characteristics observed after an incubation at 30°C for 24-48 hours.				
	MICROORGANISM (ATCC)	GROWTH			
	Candida albicans (10231)	luxuriant(Formation of germ tubes within 3-4 hours and chlamydospores within 48 hours)			
	Cryptococcus neoformans(32045)	luxuriant(Brown colony growth within 48 hours of incubation)			
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:	It is a differential medium used for the presumptive identification and differentiation of Candida albicans and Cryptococcus neoformans .				
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
B088	40.3 g/l	12.406 L	6.5 ± 0.2	Nil	121^0C / 15 minutes