

<b>B088</b>	<b>TOC AGAR</b>					
<b>Formula</b>						
<b>Ingredients:</b>			<b>gms/lit.</b>			
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						
<b>Directions:</b>						
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.						
<b>Principle:</b>						
C. albicans and C. stellatoides may be presumptively identified on this medium by the formation of germ tubes and chlamyospores. 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.						
<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) :		6.5 ± 0.2				
Colour (post autoclaving/heating):		Yellow				
Clarity (post autoclaving/heating):		Clear to slightly opalescent				
<b>(III) Q.C. Test Microbiological</b>						
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 chlamyospores within 48 hours)				
Cryptococcus neoformans(32045)		luxuriant(Brown colony growth within 48 hours of incubation)				
<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>		It is a differential medium used for the presumptive identification and differentiation of Candida albicans and Cryptococcus neoformans .				
<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>B088</b>	40.3 g/l	12.406 L	6.5 ± 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 BIOMARK LABORATORIES publications.

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