

TECHNICAL SHEET

B846	ASPERGILLUS DIFFERENTIATION MEDIUM BASE				
Formula					
Ingredients :		gms/lit.			
Peptic digest of animal tissue		10.00			
Yeast extract		20.00			
Ferric ammonium citrate		0.50			
Dichloran		0.002			
Agar		15.00			
Final pH (at 25°C) : 6.3 ± 0.2					
Directions :					
Suspend 22.75 gms. in 500 ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool around 50°C and aseptically add sterile rehydrated contents of 1 vial of Chloramphenicol Selective Supplement. Mix well.					
Principle :					
Mixture of Chloramphenicol and Dichloran restricts spreading of moulds, inhibits bacterial growth and helps in identification of fungi. Mixture of peptic digest of animal tissue and yeast extract improves growth rate of fungi particularly aflatoxin producing Aspergillus species like Aspergillus parasiticus. Aspergillus flavus develop intense yellow orange colour at the base of the colonies which is a differential characteristic for these species. The orange yellow colouration was due to reaction of ferric ions from ferric citrate with aspergillic acid molecules forming a coloured complex. The number of colonies are reported per gram of food.					
QC Tests – (I) Dehydrated Medium					
Colour :		Cream to yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		6.3 ± 0.2			
Colour (post autoclaving/heating) :		Cream to medium amber			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 48 - 72 hrs. at 30°C.					
MICROORGANISM (ATCC)		GROWTH		COLONY CHARACTERISTICS	
Aspergillus flavus (22547)		Good – luxuriant		Yellowish orange colour on the reverse side of colonies	
Aspergillus parasiticus (28285)		Good – luxuriant		Yellowish orange colour on the reverse side of colonies	
Aspergillus niger (9642)		Good – luxuriant		Pale yellow colour on the reverse side and black heads on the top of the colonies.	
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 :					
For detecting aflatoxin producing Aspergillus species from food samples.					
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			
B846		22.75 g/l		21.97 L	
		6.3 ± 0.2		Chloramphenicol Selective supplement	
				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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