

TECHNICAL SHEET

B253	MCCLUNG TOABE AGAR BASE					
Formula						
Ingredients :		gms/lit.				
Proteose peptone		40.00				
Dextrose		2.00				
Disodium hydrogen phosphate		5.00				
Monopotassium phosphate		1.00				
Sodium chloride		2.00				
Magnesium sulphate		0.10				
Agar		25.00				
Final pH (at 25°C) : 7.6 ± 0.2						
Directions :						
Suspend 75.1 gms. in 900ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 20 minutes. Cool to 50°C and aseptically add 100ml of sterile Egg yolk emulsion(BF003). Mix well and pour into sterile petri plates.						
Principle :						
McClung Toabe Agar Base is prepared the differentiation of Clostridium species on the basis of their lecithinase and lipase activity. Lecithinase enzyme lyses egg yolk lecithin, producing an opaque zone of precipitation surrounding the slightly raised colonies. Proteose peptone provides nitrogenous growth nutrients. Dextrose is the fermentable carbohydrate. Phosphates form good buffering system.						
QC Tests – (I)Dehydrated Medium						
Colour :		Cream to Yellow				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		7.6 ± 0.2				
Colour (post autoclaving/heating) :		a) Basal medium :Amber b) After addition of egg yolk emulsion : Yellow				
Clarity (post autoclaving/heating) :		a)Clear to slightly opalascnt b) Opaque				
(III)Q.C. Test Microbiological						
Cultural characteristics observed after 18 –24 hrs. at 35-37°C, incubated anaerobically.						
MICROORGANISM (ATCC)		GROWTH	LECITHINASE	LIPASE		
Clostridium perfringens (12919)		Luxuriant	+	-		
Clostridium sporogenes (11437)		Luxuriant	-	+		
Staphylococcus aureus (25923)		Luxuriant	+	+		
Key : Lecithinase : + = positive reaction, opaque zone around the colonies. Lipase: + = positive reaction, iridescent sheen on growth surface.						
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 detection and isolation of Clostridium perfringens from foods.						
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
B253		75.1g/l	6.66L	7.6 ± 0.2	sterile Egg yolk emulsion(BF003)	121°C / 15 minutes

Refer disclaimer Overleaf

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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