

TECHNICAL SHEET

B1036	FERMENTATION MEDIUM BASE FOR C. PERFRINGENS				
Formula					
Ingredients :		gms/lit.			
Casein enzymichydrolysate		10.00			
Peptone, special		10.00			
Sodium thioglycollate	0.25				
Agar		2.00			
Final pH (at 25°C) : 7.4 ± 0.2					
Directions :					
Suspend 22.25 gms.in 1000 ml. distilled water. Heat to boiling to dissolve the medium completely. Dispense 9 ml of amounts in test tubes containing inverted Durham tubes. Sterilize by autoclaving at 15 lbspressure (121°C) for 15 minutes. Just before use, heat in boiling water or free flowing steam for 10 minute to remove dissolved oxygen and add 1 ml of 1% sterile salicin and raffinose solutions in separate tubes.					
Principle :					
Casein enzymichydrolysate and peptone special provide growth nutrients and sodium thioglycollate creates low oxygen tension required in the medium. Pure isolate is inoculated into fermentation medium containing 1% salicin and 1% raffinose and checked for acid production. To test acid, transfer culture to a test tube and add a few drops of 0.04% bromthymol blue. Acid production is indicated by yellow colour. Salicin is rapidly fermented by Clostridia other than Clostridium perfringens while Clostridium perfringens produces acid from raffinose within 3 days but not other species.					
QC Tests - (I)Dehydrated Medium					
Colour :		Yellow			
Appearance :		Homogeneous Free Flowing powder			
(II)Rehydrated medium					
pH (post autoclaving/heating) :		7.4 ± 0.2			
Colour (post autoclaving/heating) :		Light amber			
Clarity (post autoclaving/heating) :		Clear			
(III)Q.C. Test Microbiological					
Cultural characteristics observed after upto 72 hrs. at 35°C when incubated anaerobically.					
MICROORGANISM (ATCC)	GROWTH	SALICIN (24HRS.)	RAFFINOSE (72 HRS.)		
Clostridium perfringens (12924)	Luxuriant	-	A		
Clostridium paraperfringens	Luxuriant	AG	-		
Key : A = Acid production AG = Acid and Gas production					
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 studying fermentation reaction of clostridium perfringens.				
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
B1036	22.25g/l	22.47L	7.4+0.2	1% sterile salicin and raffinose	121°C / 15 minutes

Disclaimer:

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