

TECHNICAL SHEET

B1033	FNA MEDIUM (FLUORESCEIN DENITRIFICATION AGAR)					
Formula						
Ingredients :		gms/lit.				
Peptic digest of animal tissue	5.00					
Casein enzymichydrolysate		5.00				
Magnesium sulphate		1.50				
Dipotassium phosphate	1.50					
Potassium nitrate		2.00				
Sodium nitrite		0.50				
Agar		15.00				
Final pH (at 25°C) : Self						
Directions :						
Suspend 30.5 gms.in 1000 ml. distilled water. Boil to dissolve the medium completely. Dispense in tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool the tubed medium in slanted position.						
Principle :						
The medium contain potassium nitrate and sodium nitrite as the source of nitrate and nitrite for the denitrification by Pseudomonas. Peptic digest of animal tissue and casein enzymichydrolysate supply the necessary nutrients. Dipotassium phosphate maintains buffering conditions. Magnesium sulphate is the cationic salt and is an activator which intensifies luminescence.						
QC Tests - (I)Dehydrated Medium						
Colour :	Light yellow					
Appearance :	Homogeneous Free Flowing powder					
(II)Rehydrated medium						
pH (post autoclaving/heating) :	Self					
Colour (post autoclaving/heating) :	Medium amber					
Clarity (post autoclaving/heating) :	Slightly opalescent					
(III)Q.C. Test Microbiological						
Cultural characteristics observed after 24 - 48 hrs.at 35-37°C.						
MICROORGANISM (ATCC)	GROWTH	FLUORESCEIN	NITRATE REDUCTION			
Pseudomonas aeruginosa (27853)	Good - luxuriant	+	+			
Acinetobacter calcoaceticus (19606)	Good - luxuriant	-	-			
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 differentiation of Pseudomonas from other bacilli by their ability to reduce nitrates to nitrogen gas (denitrification) and detection of fluorescein pigment.				
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
B1033	30.5g/l		1.639L	SELF	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 BIOMARKLABORATORIES publications.

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