

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1422	MOTILITY NITRATE MEDIUM, BUFFERED				
Formula					
Ingredients :		gms/lit.			
Peptic digest of animal tissue		5.00			
Meat extract B#		3.00			
Galactose		5.00			
Potassium nitrate		1.00			
Disodium phosphate		2.50			
Agar		3.00			
#- Equivalent to Beef extract					
Final pH (at 25°C) :		7.1 ± 0.2			
Directions :					
Suspend 19.5 gms. in 1000 ml distilled water containing 5ml. glycerol. Heat to boiling to dissolve the medium completely. Dispense in test tubes to make them half full. Sterilize by autoclaving at 15 lbs pressure (121° C) for 15 minutes. Cool quickly in cool running water and allow the tubed medium to solidify in an upright position.					
Principle :					
Peptic digest of animal tissue and Meat extract B, galactose provide essential nutrients for growth. Potassium nitrate is the substrate for nitrate reduction which is detected with the help of two reagents, viz. sulfanilic acid (1 gm in 125 ml 5 N acetic acid) and N-(1-naphthyl) ethylene diamine dihydrochloride (0.25 gm in 200 ml 5N acetic acid). The presence of less quantity of agar in the medium makes it semisolid which allows detection of motility.					
QC Tests – (I) Dehydrated Medium					
Colour :		Light to medium yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		7.1 ± 0.2			
Colour (post autoclaving/heating) :		Light amber			
Clarity (post autoclaving/heating) :		Clear to slightly opalescent gel forms in tubes as butt			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 24- 48 hours at 35-37°C.					
MICROORGANISM (ATCC)		MOTILITY		NITRATE REDUCTION	
Clostridium perfringens (12924)		-		+	
Clostridium absonum (27555)		w		±	
Key : + = red-violet colour, ± weak or absent					
- = growth along stabline, w = weakly motile					
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 isolation and detection of Clostridium perfringens on the basis of motility and nitrate test.					
Storage :					
Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.					
Packing :					
500 gm. bottle					
Product profile:		Reconstitution		Quantity on Preparation (500g)	
B1422		19.5g/l		25.64L	
		pH (25°C)		Supplement	
		7.1 ± 0.2		glycerol	
				Sterilization	
				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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