

TECHNICAL SHEET

B1465	MOTILITY NITRATE CP MEDIUM	
Formula		
Ingredients :	gms/lit.	
Enzymatic Digest of Casein	5.00	
Meat extract B#	3.00	
Galactose	5.00	
Potassium nitrate	1.00	
Disodium hydrogen phosphate	2.50	
Agar	3.00	
#- Equivalent to Beef extract		
Final pH (at 25°C) : 7.3 ± 0.2		
Directions :		
Suspend 19.5 gms. of B1465 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, galactose provides 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) :	7.3 ± 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	±
Clostridium perfringens (13124)	+	-
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.(As per ISO 7937:2004)	
Storage :	Dehydrated medium- below 30° C Prepared mediums- Between 2 to 8°C.	
Packing :	500 gm. bottle	

Refer disclaimer Overleaf

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Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1465	19.5g/l	25.64L	7.3 ± 0.2	glycerol	121 ⁰ 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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