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**TECHNICAL SHEET** 

B269 NITRATE AGAR							
rmula							
Ingredients : gms/li							
ptic digest of animal tissue	nal tissue 5.00						
at Extract B#	0						
tassium nitrate	0						
#- Equivalent to Beef extract							
Final nH (at 25°C) : $6.8 \pm 0.2$							
Directions :							
Suspend 21 grams in 1000 ml, distilled water. Boil to dissolve the medium completely. Dispense in tubes and sterilize							
by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Allow to cool the tubes in slanted position.							
Principles:							
Meat Extract B and Peptone are sources of carbon, protein and nutrients. Potassium Nitrate is a source of nitrate.							
Nitrate reduction is a valuable criterion for differentiating and identifying various types of bacteria. Certain bacteria							
reduce nitrates to nitrites only, while others are capable of further reducing nitrite to free nitrogen or ammonia. Agar is							
e solidifying agent.							
QC Tests – (I)Dehydrated Medium							
Colour :			cream to yellow				
Appearance :			Homogeneous Free Flowing powder				
nH (nost autoclaving/boating) :			8 + 0 2				
Colour (post autoclaving/heating) :			$5.8 \pm 0.2$				
Clarity (post autoclaving/heating) :			lear to slightly onalescent				
(III)O.C. Test Microbiological							
Cultural characteristics observed after 18 - 24 hrs at 35 - 37°C. Nitrate reduction observed on addition of 0.5ml of							
sulphanilic acid (BA078) and 0.5ml of œ-naphthylamine Solution (BA069).							
MICROORGANISM (ATCC)							
Acinetobacter calcoaceticus (19606)			: Nega	Negative reaction			
Enterobacter aerogenes (13048)			: Posit with	Positive reaction, distinct red-pink colour developed with in 1-2 minutes			
Escherichia coli (25922)			: Posit with	Positive reaction, distinct red-pink colour developed with in 1-2 minutes			
Salmonella typhimurium (14028)			: Posit with	Positive reaction, distinct red-pink colour developed with in 1-2 minutes			
Precautions : 1. For Laboratory Use.							
2. Follow proper, established laboratory procedures in handling and disposing of						disposing of infectious	
materials							
3. IRRITANT. Irritating to eyes, respiratory system and skin. Avoid contact with skin and ey						act with skin and eyes.	
Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed.						tightly closed. Target	
Limitations : 1. Since the putritional requirements of organisms yary, some strains may be encountered that fail							
to arow or grow poorly on this medium							
2. The addition of too much zinc dust may cuse a false – negative reaction or a momentary colour							
reaction.							
3. The nitrate test is very sensitive. An uninoculated nitrate cotrol should be tested with reat to determine whether the medium is nitrate free and that the glassware and reagents have						be tested with reagents	
						and reagents have not	
been contaminated with nitrous oxide.							
e: For dete	For detection of nitrate reducing bacteria.						
orage : Dehydrat	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
Packing : 500 gm. bottle							
Product profile: Reconstitution Quanti Prepar		on on (500g)	pH (25°	°C)	Supplement	Sterilization	
. <b>69</b> 21g	/  23	3.80L	6.8 ± 0	).2 [	NIL	121ºC / 15 minutes	
Appearance :   )Rehydrated medium   pH (post autoclaving/heating)   Colour (post autoclaving/h   Clarity (post autoclaving/h   MICROORGANISM (ATCC )   Acinetobacter calcoaceticu   Enterobacter aerogenes (1   Escherichia coli (25922)   Salmonella typhimurium (   ecautions :   1. For La   2. Follow   materials   3. IRRIT   Do not t   organ(s)   nitations : 1. Since :   to grow c   2. The a   reaction.	i eating) : eating) : eating) : al erved after 18 - id 0.5ml of œ-naj (19606) 3048) boratory Use. proper, establi ANT. Irritating to reathe dust. W Blood, Nerves. he nutritional rec r grow poorly on ddition of too muu rate test is very i hine whether the iaminated with ni ttion of nitrate re- ed medium- below pottle ution Quantity of Preparatio (1 23)	Homogened 6.8 ± 0.2 Light amber Clear to slig 24 hrs at 35 othylamine GROWTH Luxuriant Luxuriant Luxuriant Luxuriant Luxuriant shed laborat o eyes, respin ear suitable uirements of this medium ch zinc dust n sensitive. Ar medium is n trous oxide. ducing bacter v 30°C Prepa on (500g) 3.80L	bus Free Flo htly opales 5 - 37°C. Ni Solution (B NITR Nega Nitre Posit with Posit with Posit with tory procee protective f organisms may cuse a n uninocula nitrate free ria. ared mediun pH (25° 6.8 ± 0	scent scent litrate 3A069) RATE F ative re in 1-2 tive re in 1-2 tive re in 1-2 edures edures edures s vary, a false ated n e and m— Be C) 0.2	powder powder reduction observed of REDUCTION reaction reaction, distinct red-p minutes reaction, distinct red-p	on addition of 0.5r ink colour develop ink colour develop disposing of infect act with skin and tightly closed. T be encountered the or a momentary c be tested with rea- and reagents hav Sterilization 121°C / 15 minute	

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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