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TECHNICAL SHEET

B1467 NITRATE BROTH							
Formula							
Ingredients: gms/lit.							
Peptic digest of animal tissue 5.00							
Meat Extract B#							
Potassium nitrate 1.00							
Sodium chloride 30.00							
#- Equivalent to Beef extract							
Final pH (at 25°C): 7.0 <u>+</u> 0.2							
Directions:							
Suspend 39 grams in 1000 ml distilled water. Heat, if necessary, to dissolve the medium completely.							
Dispense in tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.							
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 ammo			ı				
QC Tests - (I)Del	lydrated Medium						
	Colour:		Cream to yellow				
			Homogeneous Free Flowing powder				
(II)Rehydrated medium							
pH (post autoclaving/heating):			7.0 <u>+</u> 0.2				
Colour (post autoclaving/heating):			Light amber				
, , ,				Clear to slightly opalescent solution forms in tubes.			
(III)Q.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 and 0.5ml of α-naphthylamine Solution.							
MICROORGANISM (ATCC) GROWTH NITRATE REDUCTION							
				riant Positive reaction, red colour developed within 1-2 min.			
Enterobacter aerogenes (13048) Luxuria							
Escherichia co							
Salmonella typhimurium (14028) Luxuriant Positive reaction, red colour developed within 1-2 mi							
Precautions: 1. For Laboratory Use.							
2. Follow proper, established laboratory procedures in handling and dispose						g and disposing of	
	infectious materials.						
	3. IRRITANT. Irritating to eyes, respiratory system and skin. Avoid contact with skin						
	and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container						
	tightly closed. Target organ(s): Blood, Nerves.						
Limitations :							
	encountered that fail to grow 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 reagents to determine whether the medium is nitrate free and that the glassware						
	and reagents have not been contaminated with nitrous oxide.						
	4. The inoculum should not be taken from broth suspention of the organisms.						
Use:	For detection of nitrate reduction by bacteria and also for the enumeration of Bacillus						
	cereus by International Organization for Standardization (ISO), 1993, Draft ISO/DIS						
	7932						
Storage:		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.					
Packing:	500 gm. bottle						
Product profile:	Reconstitution	Quantity		pH (25°C)	Supplement	Sterilization	
			on (500g)				
B1467	39g/l	12	.82L	7.0 <u>+</u> 0.2	NIL	121°C / 15 minutes	

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Disclaimer:

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