

TECHNICAL SHEET

AS008	Nitrate Agar Slant	
Formula		
Ingredients:	gms/lit.	
Peptic digest of animal tissue	5.00	
Meat Extract B#	3.00	
Potassium nitrate	1.00	
Agar	12.00	
#- Equivalent to Beef extract		
Final pH (at 25°C): 6.8 ± 0.2		
Directions:		
Streak the test inoculum aseptically into the slant and incubate at appropriate conditions.		
Principle:		
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 the solidifying agent.		
Note: Nitrate reduction is not a confirmatory test. Complete identification of bacteria should include the morphology, gram reaction, biochemical and serological tests. Addition of excess zinc may result in false negative reaction. Also, during performance of nitrate reduction test with a-naphthylamine, the color produced in a positive reaction may fade quickly		
(I) QC Tests		
pH:	6.8 ± 0.2	
Color:	Light amber coloured medium.	
Appearance:	Sterile Nitrate Agar in disposable slants.	
(II) Sterility test		
Passes release criteria		
(III) Q.C. Test Microbiological		
Cultural characteristics observed after incubation at 35-37°C for 18-24 hrs. On addition of sulfanilic acid and α - naphthylamine reagent		
MICROORGANISM (ATCC)	GROWTH	NITRATE REDUCTION
Enterobacter aerogenes 13048	Luxuriant	Positive, pink coloration
Escherichia coli 25922	Luxuriant	Positive, pink coloration
S. serotype typhimurium 14028	Luxuriant	Positive, pink coloration
Aerobacter calcoaceticus 43498	Luxuriant	Negative, no change

Refer disclaimer Overleaf

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Precautions :	1. In Vitro diagnostic use only. 2. Read the label before opening the container
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 detection of nitrate reducing bacteria.
Storage:	Store between 2-8°C. Use before expiry date on the label.
Packing:	10/25 disposable slants.

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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