

TECHNICAL SHEET

B368	SALMONELLA AGAR, ÓNÓZ		
Formula			
Ingredients:	gms/lit.		
Peptic digest of animal tissue	6.80		
Yeast extract	3.00		
Meat extract	6.00		
Lactose	11.50		
Sucrose	13.00		
Bile salt mixture	3.825		
Trisodium citrate,5H ₂ O	9.30		
Sodium thiosulphate, 5H ₂ O	4.25		
L-phenylalanine	5.00		
Disodium phosphate .2H ₂ O	1.00		
Ferric citrate	0.50		
Magnesium sulphate	0.40		
Brilliant green	0.00166		
Neutral red	0.022		
Aniline blue	0.25		
Metachrome yellow	0.47		
Agar	15.00		
Final pH (at 25°C):	7.1 ± 0.2		
Directions:			
Suspend 76.15 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE. Mix well before pouring into sterile Petri plates.			
Principle:			
Peptic digest of animal tissue, yeast extract and meat extract provide nitrogenous compounds, vitamins B complex and other essential growth nutrients. Lactose and sucrose are the fermentable carbohydrates. Bile salts mixture, brilliant green and sodium citrate inhibit gram – positive organisms. Sodium thiosulphate and ferric citrate enable the detection of hydrogen sulphide production indicated by colonies with black centers. Lactose and sucrose fermenting members of Enterobacteriaceae the partially inhibited, and their colonies can be differentiated by means of the colour produced in the presence of the indicators – neutral red and aniline blue. Agar is the solidifying agent.			
QC Tests – (I)Dehydrated Medium			
Colour:	Beige to light brown		
Appearance:	Homogeneous Free Flowing powder		
(II)Rehydrated medium			
pH (post autoclaving/heating) :	7.1 ± 0.2		
Colour (post autoclaving/heating) :	Greenish brown		
Clarity (post autoclaving/heating) :	Clear to slightly opalescent		
(III)Q.C. Test Microbiological			
Cultural characteristics observed after 18 – 24 hrs. at 35- 37°C.			
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY	COLOUR CHANGE OF MEDIUM
Enterobacter aerogenes (13048)	Good-Luxuriant	Bluish or yellowish	Yellow
Pseudomonas aeruginosa (27853)	Good-Luxuriant	Yellow to brown	Yellow
Proteus mirabilis (25933)	Good-Luxuriant	Dark brown to black	Dark yellow
Salmonella typhi (6539)	Good-Luxuriant	Yellow with or without black centres	Yellow
Salmonella typhimurium (14028)	Good-Luxuriant	Yellow with black centre	Yellow
Shigella flexneri (12022)	Good-Luxuriant	Yellow to brown	Dark brown
Escherichia coli (25922)	Good	Blue with bile precipitation	Blue

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	Klebsiella pneumoniae (13883)	Poor – fair		Bluish-purple, may have slight precipitation ring around colony		Bluish green
	Staphylococcus aureus (25923)	Inhibited		--		--
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 selective isolation and identification of Salmonellae from clinical specimens.					
Storage:	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.					
Packing:	500 gm. bottle					
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization	
B368	76.15g/l	6.566L	7.1 ± 0.2	NIL	DO NOT AUTOCLAVE	

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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