

TECHNICAL SHEET

B370	SS AGAR, MODIFIED	
Formula		
Ingredients :	gms/lit.	
Peptic digest of animal tissue	5.00	
Meat Extract B#	5.00	
Lactose	10.00	
Bile salt mixture	5.50	
Sodium citrate	10.00	
Sodium thiosulphate	8.50	
Ferric citrate	1.00	
Brilliant green	0.00033	
Neutral red	0.025	
Agar	12.00	
#- Equivalent to Beef extract		
Final pH (at 25°C) :	7.2 ± 0.2	
Directions :		
Suspend 57.02 grams in 1000 ml purified / distilled water. Heat to boiling with frequent agitation to dissolve the medium completely. DO NOT AUTOCLAVE OR OVERHEAT. Overheating may destroy the selectivity of the medium. Cool to about 45-50°C. Mix and pour into sterile Petri plates.		
Principle :		
In SS Agar, Peptic digest of animal tissue and Beef extract provide essential growth nutrients. Bile salts and brilliant green are complementary in inhibiting gram – positive bacteria, most coliform bacteria, and the swarming phenomenon of Proteus spp., while allowing Salmonella spp. to grow. Sodium thiosulfate and ferric citrate allow the detection of hydrogen sulfide by the production of colonies with black centers. Lactose is the carbohydrate present in SS Agar. Neutral red and brilliant green are present as pH indicators.		
QC Tests – (I)Dehydrated Medium		
Colour :	Light yellow to pink	
Appearance :	Homogeneous Free Flowing powder	
(II)Rehydrated medium		
pH (post autoclaving/heating) :	7.2 ± 0.2	
Colour (post autoclaving/heating) :	Reddish orange	
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
Salmonella typhimurium (14028)	Good-luxuriant	Colourless with black center
Salmonella typhi (6539)	Good-luxuriant	Colourless with black center
Salmonella enteritidis (13076)	Good-luxuriant	Colourless with black center
Salmonella Choleraesuis (12011)	Good-luxuriant	Colourless with black center
Shigella flexneri (12022)	Good	Colourless
Escherichia coli (25922)	fair	pink with bile precipitate
Enterobacter aerogenes (13048)	fair	Cream pink
Proteus mirabilis (25933)	fair-good	Colourless, may have black center
Enterococcus faecalis (29212)	None to poor	Colourless

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Precautions :	1. For Laboratory Use.				
	2. Follow proper, established laboratory procedures in handling 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.				
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
	2. SS Agar is a highly selective medium. For this reaction, it is not recommended as the sole medium for primary isolation of Shigella. Some strains of Shigella may not grow.				
	3. A few nonpathogenic organisms may grow on SS Agar. These organisms can be differentiated by their ability to ferment lactose.				
Use:	For the selective isolation and differentiation of Salmonella and Shigella species from pathological specimens, suspected foodstuffs etc.				
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
B370	57.02g/l	8.769 L	7.2 ± 0.2	NIL	DO NOT AUTOCLAVE OR OVERHEAT

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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