

TECHNICAL SHEET

B369	S. T. A. AGAR BASE					
Formula						
Ingredients :		gms/lit.				
Peptic digest of animal tissue		20.00				
Yeast extract		2.00				
Dipotassium hydrogen phosphate		1.00				
Magnesium sulphate, heptahydrate		1.00				
Agar		13.00				
Final pH (at 25°C) : 7.0 ± 0.2						
Directions :						
Suspend 18.24 grams (the equivalent weight of dehydrated powder) in 495 ml distilled water containing 7.5 grams glycerol. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and aseptically add rehydrated contents of 1 vial of S.T.A. Selective Supplement (BF105). Mix well and pour into sterile Petri plates.						
Principle :						
Peptic digest of animal tissue and yeast extract provide nitrogenous compounds, vitamin B complex and other essential growth nutrients. Phosphate buffers the medium. The supplement contains streptomycin, cycloheximide, thallos acetate which makes the medium selective by inhibiting most of the organisms. Prepare homogenate of meat product to be tested by blending or in a stomacher. Prepare decimal dilutions of it in saline peptone water and spread on the whole plate or inoculate by streaking. Incubate at 22°C for 48 hours. After incubation observe white or semi-transparent convex colonies with or without an irregular margin which may be seen as masses of woven threads. Occasional yeast and Pseudomonas colonies may grow. The latter may be confirmed by flooding oxidase reagent on the plate, blue colonies should be subtracted from the total.						
QC Tests – (I)Dehydrated Medium						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		7.0 ± 0.2				
Colour (post autoclaving/heating) :		Light straw				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
(III)Q.C. Test Microbiological						
Cultural characteristics observed after an incubation at 20-25°C for 48 hours with added S.T.A. Supplement (BF105)						
MICROORGANISM (ATCC)		GROWTH				
Brochothrix thermosphacta (11509)		good-luxuriant				
Escherichia coli (25922)		inhibited				
Enterococcus faecalis (29212)		inhibited				
Pseudomonas aeruginosa (27853)		none-poor				
Salmonella Enteritidis (13076)		inhibited				
Staphylococcus aureus (25923)		inhibited				
Candida albicans (10231)		none-poor				
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 :		It is recommended for the isolation of Brochothrix thermosphacta from meat products.				
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
B369		36.48g/l	13.706L	7.0 ± 0.2	S.T.A. Selective Supplement (BF105).	121°C / 15 minutes

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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