

## STAA AGAR BASE STAA SELECTIVE SUPPLEMENT

Basal medium and selective supplement  
for the isolation of *Brochothrix thermosphacta* from meat products.

### TYPICAL FORMULAS

#### STAA Agar Base (g/l)

Peptone	20.00
Yeast Extract	2.00
Dipotassium Hydrogen Phosphate	1.00
Magnesium Sulphate . 7 H <sub>2</sub> O	0.10
Cycloheximide	0.05
Agar	11.50
Bromocresol Purple	0.02

#### STAA Selective Supplement (vial contents for 500ml of medium)

Streptomycin Sulphate	250 mg
Thallos acetate	25 mg

### DIRECTIONS

Dissolve 17.3g in 500ml of cold distilled water and add 7.5g of glycerol. Heat to boiling with frequent agitation and sterilise by autoclaving at 115°C for 15 minutes.

Cool to 50°C and add the contents of one vial of STAA Supplement (REF 4240052) reconstituted with 5ml of sterile distilled water. Mix well and distribute into sterile Petri dishes.

Final pH: 7.0 ± 0.1

WARNING: the powder medium STAA Agar Base contains cycloheximide. Handle with care, avoiding contact with skin and eyes. The selective supplement contains thallos acetate. Don't inhale, avoid contact with skin and eyes. Handle the product wearing gloves and using eye protective gear. Read the Material Safety Data Sheets.

### DESCRIPTION

STAA Agar Base, supplemented with streptomycin and thallos acetate, is used for the isolation of *B. thermosphacta* from meat products. The medium is prepared according to Gardner's formulation. *B. thermosphacta* is a Gram-positive rod that is responsible for the spoilage of meats and meat products stored aerobically or vacuum packed. The medium contains cycloheximide to inhibit the growth of yeasts, streptomycin sulphate to inhibit the growth of Gram-negative and Gram-positive bacteria and thallos acetate, which inhibits the growth of yeasts as well as many aerobic and facultative anaerobic bacteria.

### TECHNIQUE

Prepare tenfold dilutions of the test sample in Peptone Water. Transfer 0.1ml volumes to the agar plate and streak to get well isolated colonies. Incubate aerobically at 22°C for 48 hours. *B.thermosphacta* grows as straw-coloured colonies about 1mm in diameter, oxidase negative.

### USER QUALITY ASSURANCE (22°C-48HRS)

Productivity control : *B.thermosphacta* ATCC 11509: growth

Selectivity control: *E.coli* ATCC 25922: partially inhibited

### Storage

Dehydrated media: 10-30°C

User prepared plates : up-to 7 days at 2-8°C

### REFERENCE

• Gardner, G.A. (1966) J. Appl. Bacteriol. **29**, 455 - 460

### PACKAGING

4020791	STAA Agar Base	100g (2.9 l)
4020792	STAA Agar Base	500g (14.5 l)
4240052	STAA Selective Supplement	10 vials, each for 500ml of medium