B3676 B.T.B. Lactose Agar (Bromo Thymol Blue Lactose Agar)

B.T.B. Lactose Agar is used for the detection and isolation of pathogenic Staphylococci.

Composition:

Ingredients	Grams/Litre
Proteose peptone	5.0
Beef extract	3.0
Lactose	10.0
Bromo Thymol Blue	0.17
Agar	15.0

Final pH 8.6 +/- 0.2 at 25°C

Store prepared media below 8°C, protected from direct light. Store dehydrated powder in a dry place in tightly-sealed containers at 2-25°C.
Appearance: Greenish yellow colored, homogenous, free flowing powder.
Gelling: Firm.
Color and Clarity: Greenish blue colored, clear to slightly opalescent gel forms in petri plates.

Directions:
Suspend 33.17 g of B.T.B. Lactose Agar in 1000 ml of distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes.

Principle and Interpretation:
Pathogenic Staphylococci are differentiated by their ability to grow at a high pH and in the presence of bromo thymol blue. The nutritive components of the broth include proteose peptone and beef extract, which supply amino acids and other essential growth factors needed by Staphylococci. Lactose is the fermentable sugar.

Cultural characteristics after 24-48 hours at 35°C.

Organisms (ATCC)	Growth	Colour of Colony
Staphylococcus aureus (6538)	+++	golden yellow
Staphylococcus epidermidis (12228)	+++	blue/colourless
Escherichia coli (25922)	+++	yellow
Salmonella typhi (6539)	+++	blue/colourless

References:

1. Chapman, Lieb, Bereus, Cucio, J. Bact., 33, 533 (1937)

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.