B.T.B. Lactose HiVeg™ Agar MV861

Bromo Thymol Blue Lactose HiVeg Agar is used for the detection and isolation of pathogenic *Staphylococci*.

Composition ** :

Ingredients	Grams/Litre
HiVeg peptone No. 3	5.0
HiVeg extract	3.0
Lactose	10.0
Bromo thymol blue	0.17
Agar	15.0

Final pH (at 25°C) 8.6 ± 0.2
** Formula adjusted, standardized to suit performance parameters.

Directions :

Suspend 33.17 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completly. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle and Interpretation :

Bromo Thymol Blue Lactose HiVeg Agar is prepared by using HiVeg peptone No.3 and HiVeg extract, which are vegetable peptones, hence free of BSE/TSE risks. BTB Lactose HiVeg Agar is the modification of BTB Lactose Agar, which was designed by Chapman et al (1). Pathogenic *Staphylococci* are differentiated by their ability to grow at a high pH and in the presence of bromo thymol blue. Plates should be inoculated preferably by spread plate technique and incubated for about 36 hours at 35°C. Typical colonies appear like deep yellow about 90%, blue grey about 10%. Coliforms may grow but are differentiated by their appearance.

Quality Control :

Appearance of powder
Greenish yellow coloured, homogeneous, free flowing powder.

Gelling
Firm, comparable with 1.5% Agar gel.

Colour and Clarity
Greenish blue coloured, clear to slightly opalescent gel forms in petri plates.

Reaction
Reaction of 3.32% w/v aqueous solution is pH 8.6 ± 0.2 at 25°C.

Product Profile :	
Vegetable based (Code MV)◉	**Animal based** (Code M)
MV861 HiVeg peptone No.3 HiVeg extract	**M861** Proteose peptone Beef extract

Recommended for	:	Detection and isolation of pathogenic *Staphylococci*
Reconstitution	:	33.17 g/l
Quantity on preparation (500g)	:	15.07 L
pH (25°C)	:	8.6 ± 0.2
Supplement	:	None
Sterilization	:	121°C / 15 minutes.

Storage : Dry Medium - Below 30°C, Prepared Medium 2 - 8°C.

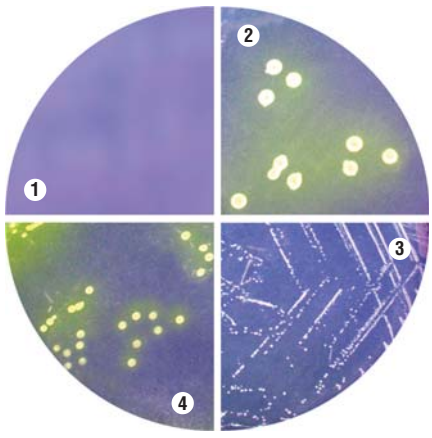
Cultural Response

Cultural characteristics observed after an incubation at 35-37°C for 24 - 48 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery	Colour of colony
Escherichia coli (25922)	10^2-10^3	luxuriant	>70%	yellow
Salmonella serotype Typhi (6539)	10^2-10^3	luxuriant	>70%	blue/colourless
Staphylococcus aureus (6538)	10^2-10^3	luxuriant	>70%	golden yellow
Staphylococcus epidermidis (12228)	10^2-10^3	luxuriant	>70%	blue/colourless

References :

1. Chapman, Lieb, Bereus and Curcio, 1937, J. Bact., 33:533.



MV861 B.T.B. Lactose HiVeg Agar
1. Control
2. *Escherichia coli*
3. *Salmonella* serotype Typhi
4. *Staphylococcus aureus*

◉ Prepared from GMO free Vegetable proteins replacing Animal based peptones. Freedom from BSE/TSE worries.