



Crystal Violet Lactose HiVeg Agar

MV897

It is recommended for differentiation of pure cultures of pathogenic and non-pathogenic Staphylococci.

Composition**

Ingredients	Gms / Litre
HiVeg peptone No. 3	5.000
HiVeg extract	3.000
Lactose	10.000
Crystal violet	0.0033
Agar	15.000
Final pH (at 25°C)	6.8±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 33 grams in 1000 ml distilled water. 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. Mix well and pour into sterile Petri plates.

Principle And Interpretation

Crystal Violet Lactose HiVeg Agar is prepared by using HiVeg peptone No.3 and HiVeg extract in place of Proteose peptone and Beef extract respectively, which makes the medium free of BSE/TSE risks. Crystal Violet Lactose HiVeg Agar is the modification of medium recommended by Chapman (1) for the differentiation of pure cultures of pathogenic from non pathogenic strains of Staphylococci(2). Crystal Violet is markedly inhibitory to Staphylococci. A fair growth can be obtained at 1:300,000 concentration of the dye when the medium is inoculated heavily. So this medium is used for study of pure cultures, where a mask inoculation is used rather than for primary isolation. Staphylococcal colonies show different colours when cultured on Crystal Violet Lactose HiVeg Agar like the conventional medium(3).

Quality Control

Appearance

Light yellow to light tan homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of Prepared medium

Purple clear to slightly opalescent

Reaction

Reaction of 3.3% w/v aqueous solution at 25°C. pH : 6.8±0.2

pH

6.60-7.00

Cultural Response

Cultural characteristics observed after an incubation at 35 - 37°C for 40 - 48 hours.

Cultural Response

Organism	Growth	Inoculum (CFU)	Recovery	Colour of colony
Cultural Response <i>Escherichia coli</i> ATCC 25922	luxuriant	50-100	≥70%	purple
<i>Staphylococcus aureus</i> ATCC 25923	fair - good	50-100	≥30%	yellow
<i>Staphylococcus epidermidis</i> ATCC 12228	fair - good	50-100	≥30%	purple/ slight yellow

Streptococcus pyogenes none - poor 50-100 0-10% colourless
ATCC 19615

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

1. Chapman, 1936, J. Bact., 32:199.
2. Chapman, Berens. Peters and Curcio, 1934, J. Bact., 28:343.
3. Chapman and Berens, 1935, J. Bact., 29:437.

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