

HiCombi™ CLED - MacConkey Agar Plate

HB003

Combination of CLED Agar + MacConkey Agar w/ 0.15% Bile Salts, CV and NaCl recommended for isolation and differentiation of urinary pathogens on the basis of lactose fermentation.

Composition**

Ingredients	Gms / Litre
CLED Agar	-
Peptic digest of animal tissue	1.500
Casein enzymic hydrolysate	1.500
Beef extract	3.000
Lactose	10.000
L-Cystine	0.128
Bromothymol blue	0.020
Agar	15.000
MacConkey Agar	-
Pancreatic digest of gelatin	17.000
Bile salts	1.500
Sodium chloride	5.000
Neutral red	0.030
Crystal violet	0.001
Agar	15.000

**Formula adjusted, standardized to suit performance parameters

Directions

Streak the test inoculum (50-100 CFU) aseptically on the plate.

Principle And Interpretation

Biplates has unique combination of two media. CLED agar is recommended for urine bacteria screening. CLED Agar is recommended for isolation, enumeration and identification of urinary pathogens on the basis of lactose fermentation, whereas MacConkey Agar is a differential medium for the selection and recovery of the *Enterobacteriaceae* and related enteric gram-negative bacilli. This medium is prepared in accordance with USP and contain crystal violet, NaCl and Bile salts. It is very selective and suppresses growth of a number of Gram-positive bacteria including staphylococci. Coliforms and Enterobacter give pink to red colonies on this medium and *Escherichia coli* gives pink to red colonies with bile precipitate.

Quality Control

Appearance

Sterile CLED and MacConkey Agar in 90 mm disposable biplates.

Colour of CLED Agar

Green coloured medium

Colour of MacConkey Agar

Red coloured medium with purplish tinge

Quantity of medium

10 ml of each medium in biplate

pH of CLED Agar

7.10- 7.50

pH of MacConkey Agar

6.90- 7.30

Sterility test

Passes release criteria

Cultural response

Cultural characteristics observed after incubation at 35-37°C for 18-48 hours.

Organism	Growth on MacConkey Agar	Colour of colony on MacConkey Agar	Growth on CLED Agar	Colour of colony on CLED Agar
<i>Escherichia coli</i> ATCC 25922	Luxuriant	Pink-red w/ bile precipitate	Luxuriant	Yellow,opaque center slightly deeper
<i>Proteus vulgaris</i> ATCC 13315	Luxuriant	Colourless	Luxuriant	yellow blue
<i>S. serotype paratyphi A</i> ATCC 9150	Luxuriant	Colourless	-	-
<i>S. serotype typhi</i> ATCC 6539	Luxuriant	Colourless	Luxuriant	Bluish
<i>Salmonella Typhimurium</i> ATCC 14028	Luxuriant	Colourless	-	-
<i>S. serotype paratyphi B</i> ATCC 8759	Luxuriant	Colourless	-	-
<i>Enterococcus faecalis</i> ATCC 29212	None-poor	-	Luxuriant	Slight yellowish or greenish
<i>Shigella flexneri</i> ATCC 12022	Fair-good	Colourless	-	-
<i>Enterobacter aerogenes</i> ATCC 13048	Luxuriant	Pink-red	-	-
<i>Staphylococcus aureus</i> ATCC 25923	Inhibited	-	Luxuriant	Deep yellow
<i>Klebsiella pneumoniae</i> ATCC 13883	Luxuriant	Pink-red	Luxuriant	Yellow to whitish blue
<i>S. serotype enteritidis</i> ATCC 13076	Luxuriant	Colourless	-	-

Storage and Shelf Life

Store between 20-30°C. Use before expiry date on the label.

Reference

Refer Technical Data of M792 C.L.E.D. agar w/ Bromo Thymol Blue Indicator & M081 MacConkey agar w/ 0.15% Bile Salts, CV and NaCl.

Revision : 1 / 2011

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