HiDip™ CLED-Mac Medium

HD004

Intended Use:

Recommended for urine bacteria screening.

Composition**

Ingredients	g / L
C.L.E.D. Agar w/Bromo Thymol Blue	
Peptone	4.000
Tryptone	4.000
HM Peptone B#	3.000
Lactose	10.000
L-Cystine	0.128
Bromothymol blue	0.020
Agar	15.000
Final pH (at 25°C)	7.3±0.2

**Formula adjusted, standardized to suit performance parameters

#- Equivalnet to Beef extract

MacConkey Agar w/ 0.15% Bile Salts, CV and NaCl	
Gelatin peptone	17.000
Tryptone	1.500
Peptone	1.500
Lactose	10.000
Bile salts	1.500
Sodium chloride	5.000
Neutral red	0.030
Crystal violet	0.001
Agar	15.000
Final pH (at 25°C)	7.1±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

1. Surfaces : Loosen cap and remove HiDip™ slide from container taking care not to touch agar surfaces. Check fordehydration or contamination. Gently lower the slides and press agar to touch the test surface by bending the scull around the hinge line. Apply even and firm pressure for 15-20 seconds. Take care not to smudge agar over the test surface. Repeat procedure using the second agar surface on an area adjacent to the initial test side. Return the slide to the container and close tightly. Incubate in an upright position at indicated temperature.

2. Liquids: Loosen cap and remove the HiDip™ slide from container. Check for dehydration or contamination. Dip slide into test fluid for upto 15-20 seconds so that agar surface becomes totally covered. (In case of inadequate liquid sample availability, pour sample over the surface of the slide). Allow to drain. Tab it gently to remove excess fluid from surface. Return the slide to the container and close tightly. Incubate in an upright position at indicated temperature. Label the container for sample number,source, date and time etc. for reference.

Principle And Interpretation

C.L.E.D.Agar is recommended for isolation, enumeration and identification of urinary pathogens on the basis of lactose fermentation.

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 contains crystal violet, Nacl and bile salts. It is very selective and suppresses growth of a number of gram-positive bacteria including Staphylococci.

Type of specimen

Clinical sample : Urine; Food and dairy samples, Water samples.

Specimen Collection and Handling

Refer Directions.

Warning and Precautions

In Vitro diagnostic use only. For Professional use only. Read the label before opening the container. Wear protective gloves/ protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations:

C.L.E.D.Agar

1. This medium is recommended for urine infection. Low urine count may be a result of antibiotic therapy, low pH of urine.
2. Recovery depends on the urine count.
3. Inoculate the medium immediately after urine collection.

Mac Conkey Agar:

1. Though the medium is recommended for selective isolation, further biochemical and serological testing must be carried out for further confirmation.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

Quality Control

Appearance

The HiDip™ slide containing combination of sterile CLED Agar and MacConkey Agar Medium on separate individual surfaces.

Colour

Colour of CLED Agar

Green coloured gel.

Colour of MacConkey Agar

Red coloured gel with purplish tinge

Quantity of medium

2.5ml of medium per surface

Sterility check

Passes release criteria

pH of CLED Agar

pH Range : 7.10- 7.50

pH of MacConkey Agar

pH Range : 6.90-7.30

Cultural Response

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

Organism	Growth	Colour of colony
CLED Agar		
Escherichia coli ATCC 25922 (00013*)	good-luxuriant	yellow, opaque, centre slightly deeper yellow
Enterococcus faecalis ATCC 29212 (00087*)	good-luxuriant	slight yellowish or greenish
## *Proteus hauseri* ATCC 13315	good-luxuriant	blue
Staphylococcus aureus subsp. *aureus* ATCC 25923 (00034*)	good-luxuriant	deep yellow

Salmonella Typhi ATCC 6539	good-luxuriant	bluish
Klebsiella pneumoniae ATCC 13883 (00097*)	good-luxuriant	yellow to whitish blue
MacConkey Agar		
Escherichia coli ATCC 25922 (00013*)	luxuriant	pink to red with bile precipitate
# *Klebsiella aerogenes* ATCC 13048 (00175*)	luxuriant	pink to red
Enterococcus faecalis ATCC 29212 (00087*)	fair to good	colourless to pale pink
Staphylococcus aureus subsp.aureus ATCC 25923 (00034*)	inhibited	-
Salmonella Enteritidis ATCC 13076 (00030*)	luxuriant	colourless
Salmonella Typhi ATCC 6539	luxuriant	colourless
## *Proteus hauseri* ATCC 13315	luxuriant	colourless
Shigella flexneri ATCC 12022 (00126*)	fair to good	colourless
Escherichia coli ATCC 8739 (00012*)	luxuriant	pink-red with bile precipitate
Salmonella Typhimurium ATCC 14028 (00031*)	luxuriant	colourless
Staphylococcus aureus subsp.aureus ATCC 6538 (00032*)	inhibited	
Salmonella Paratyphi A ATCC 9150	luxuriant	colourless
Salmonella Paratyphi B ATCC 8759	luxuriant	colourless
Salmonella Abony NCTC 6017 (00029*)	luxuriant	colourless
Staphylococcus epidermidis ATCC 12228 (00036*)	inhibited	
Corynebacterium diphtheriae type gravis	inhibited	

Key :- * Corresponding WDCM numbers

Formerly known as *Enterobacter aerogenes*

Formerly known as *Proteus vulgaris*

Storage and Shelf Life

On receipt store between 15-30°C Use before expiry date on the label. Product performance is best if used within stated expiry period.

Disposal

Used HiDip™ slides should be handled carefully, as it contains live microorganisms. These slides can be best disposed off either by or by immersing in a suitable disinfectant solution (i.e. dettol, phenyl etc.) over night or by autoclaving them after loosening the cap.

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IVD ***In vitro* diagnostic medical device**

CE Marking

30°C
15°C **Storage temperature**

Do not use if package is damaged

Disclaimer :

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