

HiDip™ Mac-CLED-Sab Medium

HD002

Intended Use:

Recommended for urine bacteria and mould screening.

Composition**

Ingredients

g / L

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

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

#- Equivalent to Beef extract

Sabouraud Chloramphenicol Agar

Tryptone	5.000
Peptone	5.000
Dextrose (Glucose)	40.000
Chloramphenicol	0.050
Agar	15.000
Final pH (at 25°C)	5.6±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 for dehydration 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 up right position at indicated temprature.
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 temprature. Label the container for sample number,source, date and time etc. for reference.

Principle And Interpretation

MacConkey Agar is a differential medium for the selection and recovery of the *Enterobacteriaceae* and related enteric gram-negative bacilli. crystal violet, NaCl and bile salts. It is very selective and suppresses growth of a number of gram-positive bacteria including Staphylococci.

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

Sabouraud Chloramphenicol Agar is recommended for cultivation of yeasts and moulds. Chloramphenicol inhibits a wide range of Gram-positive and Gram-negative bacteria which makes the medium selective for fungi. The low pH favors fungal growth and inhibits contaminating bacteria from clinical specimens.

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. 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:

MacConkey Agar:

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

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.

Sabouraud Chloramphenicol Agar

1. Certain pathogenic fungi may show poor growth on this medium.

2. Presence of chloramphenicol may inhibit certain pathogenic fungi.

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 MacConkey Agar Medium, CLED Agar Medium and Sabouraud Dextrose Agar Medium on separate individual surfaces.

Colour

Colour of MacConkey Agar

Red coloured gel with purplish tinge

Colour of CLED Agar

Green coloured gel.

Colour of Sabouraud Chloramphenicol Agar

Light amber coloured gel

Quantity of medium

1.5ml of medium per surface

Sterility Check

Passes release criteria

pH of MacConkey Agar

pH Range : 6.90-7.30

pH of CLED Agar

pH Range : 7.10- 7.50

pH of Sabouraud Dextrose Agar

pH Range : 5.40- 5.80

Cultural Response

Cultural characteristics observed after an incubation at 35-37°C for 24-72 hours.

Organism	Growth	Colour of colony
MacConkey Agar		
<i>Escherichia coli</i> ATCC 25922 (00013*)	luxuriant	pink to red with bile precipitate
<i>Klebsiella aerogenes</i> ATCC 13048 (00175*)	luxuriant	pink to red
<i>Enterococcus faecalis</i> ATCC 29212 (00087*)	fair to good	Pale pink to red
<i>Salmonella</i> Typhimurium ATCC 14028 (00031*)	luxuriant	colourless
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*)	inhibited	-
<i>Salmonella</i> Enteritidis ATCC 13076 (00030*)	luxuriant	colourless
<i>Salmonella</i> Paratyphi A ATCC 9150	luxuriant	colourless
<i>Salmonella</i> Paratyphi B ATCC 8759	luxuriant	colourless
<i>Salmonella</i> Typhi ATCC 6539	luxuriant	colourless
## <i>Proteus hauseri</i> ATCC 13315	luxuriant	colourless
<i>Shigella flexneri</i> ATCC 12022 (00126*)	fair to good	colourless
CLED Agar		
<i>Escherichia coli</i> ATCC 25922 (00013*)	good-luxuriant	yellow, opaque, centre slightly deeper yellow
<i>Enterococcus faecalis</i> ATCC 29212 (00087*)	good-luxuriant	slight yellowish or greenish
## <i>Proteus hauseri</i> ATCC 13315	good-luxuriant	blue
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*)	good-luxuriant	deep yellow
<i>Salmonella</i> Typhi ATCC 6539	good-luxuriant	bluish
Sabouraud Chloramphenicol Agar		
<i>Escherichia coli</i> ATCC 25922 (00013*)	luxuriant	colourless
<i>Candida albicans</i> ATCC 10231 (00054*)	luxuriant	Off white to cream
<i>Saccharomyces cerevisiae</i> ATCC 9763 (00058*)	luxuriant	Off white to cream
<i>Lactobacillus casei</i> ATCC 9595	luxuriant	colourless
# <i>Aspergillus brasiliensis</i> ATCC 16404 (00053*)	luxuriant	-

Key :- * Corresponding WDCM numbers,

\$ Formerly known as *Enterobacter aerogenes*

Formerly known as *Aspergillus niger*

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.

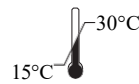
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In vitro diagnostic
medical device



Storage temperature



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CE Marking



Do not use if
package is damaged

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