

HiDip Mac-HiCrome UTI Medium

HD007

For easy and fast detection of urinary tract microorganisms.

Composition**

Ingredients	Gms / Litre
MacConkey Media	-
Peptic digest of animal tissue	1.500
Casein enzymic hydrolysate	1.500
Pancreatic digest of gelatin	17.000
Lactose	10.000
Bile salts	1.500
Sodium chloride	5.000
Crystal Violet	0.001
Neutral red	0.030
Agar	15.000
HiCrome UTI Agar	-
Peptone special	15.000
Chromogenic mixture	2.450
Agar	15.000

**Formula adjusted, standardized to suit performance parameters

Directions

Surfaces : Loosen cap and remove the HiDip slide from container. Aseptically remove the protective plastic cover from slide by taking care not to touch agar surfaces. Check for dehydration or contamination. Gently lower the slide and press agar to touch the test surface by bending the scull around the hinge line. Apply even and firm pressure for few 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 temperature.

Liquids : Loosen cap and remove the HiDip slide from the container. Aseptically remove the protective plastic cover from slide by taking care not to touch agar surfaces. Check for dehydration or contamination. Dip slide into test fluid 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.

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.

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. An autoclave is not essential, a domestic pressure cooker will suffice.

Principle And Interpretation

Field of application: Clinical, Water, Food, Dairy, Milk & Ice-cream, Beverages, Breweries, soft drinks.

HiDip slide is a handy tool for Isolation, enumeration and identification of specific bacteria in urine, food and water samples. These slides can also be used as touch slides for assessing the microbiological contamination of surfaces. HiDip slides are designed to monitor the microbial flora of liquids (e.g. urine, milk, water) and equipment surfaces in the clinical and food industries.

HiDip slide contains a double sided, hinged plastic scull containing two agar surfaces. The HiDip slides containing combination of three agar media are prism shaped having all three agar media on separate, individual surfaces, The hinged scull allows easy touch against each test area during sampling. The surface area of scull is divided into ten units of one centimeter each to allow direct counting of microbial density per unit area.

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*. Incubate slides at 35-37°C for 18-24 hours to observe cultural characteristics. Coliforms and *Enterobacter* give pink to red colonies on this medium and *Escherichia coli* gives pink to red colonies with bile precipitate.

HiChrome UTI medium is a differential medium for identification and confirmation of microorganisms mainly causing urinary tract infections. It facilitates and expedites the identification of some Gram-negative and some Gram-positive bacteria on basis of different contrasted colony colours produced by reactions of genus or species enzymes with two chromogenic substrates. Incubate slides at 35-37°C for 24 hours to observe cultural characteristics. Further confirmation of *Escherichia coli* can be done by performing Indole test using DMACA reagent (R035) and *Proteus* species can be confirmed by using TDA reagent (R036). Pick up the suspected colony using sterile loop or glass rod and transfer to a piece of filter paper. Add 1-2 drop of reagent or directly perform test on colony.

Quality Control

Appearance

The HiDip slide contains 2.5 ml each of Sterile MacConkey Agar Medium and HiChrome UTI Medium on separate individual surfaces.

Colour of medium

HiChrome UTI Medium - Light amber coloured gel. **MacConkey Agar Medium** - Red coloured gel with purple tinge

pH of UTI Agar

6.60- 7.00

pH of MacConkey Agar

6.90- 7.30

Sterility test

Passes release criteria

Cultural response

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

Organism	Growth on medium	Colour of Colony
Part A: MacConkey Agar		
<i>S. serotype enteritidis</i> ATCC 13076	Luxuriant	Colourless
<i>Shigella flexneri</i> ATCC 12022	Fair to good	Colourless
<i>Escherichia coli</i> ATCC 25922	Luxuriant	Pink to red with bile precipitate
<i>Enterococcus faecalis</i> ATCC 29212	Fair to good	Pale pink to red
<i>Proteus vulgaris</i> ATCC 13315	Luxuriant	Colourless
<i>S. serotype typhi</i> ATCC 6539	Luxuriant	Colourless
<i>Enterobacter aerogenes</i> ATCC 13048	Luxuriant	Pink to red
<i>S. serotype paratyphi B</i> ATCC 8759	Luxuriant	Colourless
<i>Staphylococcus aureus</i> ATCC 25923	Inhibited	-
Part B: HiChrome UTI Agar		
<i>Escherichia coli</i> ATCC 25922	Luxuriant	Pink-purple
<i>Enterococcus faecalis</i> ATCC 29212	Luxuriant	Blue, small

<i>Proteus mirabilis</i> ATCC 12453	Luxuriant	Light brown
<i>Staphylococcus aureus</i> ATCC 25923	Luxuriant	Golden yellow
<i>Pseudomonas aeruginosa</i> ATCC 27853	Luxuriant	Colourless (Greenish pigment may be observed)
<i>Klebsiella pneumoniae</i> ATCC 13883	Luxuriant	Blue to purple, muroid

Storage and Shelf Life

Store between 15-25°C. Use before expiry date on the label.

Reference

Refer Technical Data of M081 MacConkey agar w/ 0.15% Bile Salts, CV and NaCl & HiChrome UTI agar.



Disclaimer :

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