



## HiDip™ PCA - MacConkey Agar Medium

HD021

### Intended Use:

Recommended for total bacterial count and screening urine bacteria.

### Composition\*\*

Ingredients	g/ L
<b>Plate Count Agar</b>	
Tryptone	5.000
Yeast extract	2.500
Dextrose (Glucose)	1.000
Agar	15.000
Final pH ( at 25°C)	7.0±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### 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 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 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

Plate Count Agar is recommended for the plate count of microorganisms in foods, water and waste water. It is also recommended by APHA, FDA and also by ISO Committee.

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

Please refer disclaimer Overleaf.

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:

Plate Count Agar

1. This medium is general purpose medium and may not support the growth of fastidious organisms.

MacConkey Agar w/ 0.15% Bile salts, CV and NaCl

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 a combination of sterile PCA Medium and MacConkey Medium on separate individual surfaces.

#### Colour

##### Colour of Plate Count Agar

Light yellow coloured medium

##### Colour of MacConkey Agar

Reddish purple coloured medium

#### Quantity of medium

2.5 ml per surface

#### Sterility Check

Passes release criteria

#### pH of Plate Count Agar

pH Range : 6.80- 7.20

#### pH of MacConkey Agar

pH Range :7.20- 7.60

#### Cultural Response

Cultural characteristics was observed after incubation at 35-37°C for of 18-24 hours.

Organism	Growth	Colour of colony
<b>PCA Medium</b>		
** <i>Bacillus spizizenii</i> ATCC 6633 (00003*)	luxuriant	Red to Maroon
<i>Enterococcus faecalis</i> ATCC 29212 (00087*)	luxuriant	Red to Maroon
<i>Escherichia coli</i> ATCC 25922 (00013*)	luxuriant	Red to Maroon
<i>Lactobacillus casei</i> ATCC 9595	luxuriant	Red to Maroon
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*)	luxuriant	Red to Maroon
<i>Streptococcus pyogenes</i> ATCC 19615	luxuriant	Red to Maroon
# <i>Klebsiella aerogenes</i> ATCC 13048 (00175*)	luxuriant	Red to Maroon
<i>Salmonella</i> Enteritidis ATCC 13076 (00030*)	luxuriant	Red to Maroon

#### 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	colourless to pale pink
<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 B ATCC 8759	luxuriant	colourless
## <i>Proteus hauseri</i> ATCC 13315	luxuriant	colourless
<i>Shigella flexneri</i> ATCC 12022 (00126*)	fair to good	colourless

Key :- \* Corresponding WDCM numbers

\*\*Formerly known as *Bacillus subtilis* subsp. *spizizenii*

# 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.

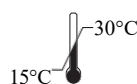
Revision : 01/2024



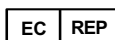
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**Do not use if  
package is damaged**

## Disclaimer :

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