



HiDip™ PCA-Cetri Medium

HD010

Intended Use:

Recommended for microbial screening of food and water.

Composition**

Ingredients	g / L
Plate Count Agar	
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

Cetrimide Agar Base

Gelatin peptone	20.000
Magnesium chloride	1.400
Potassium sulphate	10.000
Cetrimide	0.300
Agar	15.000
Final pH (at 25°C)	7.2±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

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.

Cetrimide Agar Base is used for the selective isolation of *Pseudomonas aeruginosa* from clinical specimens. It is a selective media that contains cetrimide inhibits the growth of many microorganisms whilst allowing *Pseudomonas aeruginosa* to develop typical colonies.

Type of specimen

Food and dairy samples; Water samples

Specimen Collection and Handling:

Refer Directions.

Warning and Precautions

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 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.

Cetrimide Agar Base:

1. This medium is a selective medium, some strains may show poor growth as cetrimide is highly toxic.
2. Further biochemical tests 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 Cetrimide Agar med on separate individual surfaces.

Colour

Colour of Plate Count Agar

Light yellow coloured medium

Colour of Cetrimide Agar Base

Light amber coloured gel

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 Cetrimide Agar Base

pH Range :7.00- 7.4

Cultural Response

Cultural characteristics was observed after an incubation at 35-37°C for 24-48 hours.

Organism	Growth	Colour of colony	Pigment
PCA Medium			
** <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	-
Cetrimide Agar Base			
^ <i>Pseudomonas paraaeruginosa</i> ATCC 9027 (00026*)	luxuriant	-	yellow green
<i>Pseudomonas aeruginosa</i> ATCC 27853 (00025*)	luxuriant	-	yellow green

<i>Stenotrophomonas maltophilia</i> ATCC 13637	inhibited	-	-
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*)	inhibited	-	-
<i>Escherichia coli</i> ATCC 25922 (00013*)	inhibited	-	-

Key :- * Corresponding WDCM numbers

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

^ Formerly known as *Pseudomonas aeruginosa*

Storage and Shelf Life

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

Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.