



HiDip™ PCA-VJ Agar Medium

HD014

Intended Use:

Recommended for total bacterial count and detection of *Staphylococcus aureus*.

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

V.J. Agar

Tryptone	10.000
Yeast extract	5.000
Mannitol	10.000
Dipotassium hydrogen phosphate	5.000
Lithium chloride	5.000
Glycine	10.000
Phenol red	0.025
Agar	16.000
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.

VJ Agar permits early detection of coagulase positive and mannitol positive colonies of *Staphylococcus aureus*. It is recommended by USP. Coagulase positive Staphylococci reduce potassium tellurite to metallic free tellurium and thus produce black colonies surrounded by yello zones.

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.

V.J. Agar

1. Further biochemical testing is required on colonies of pure culture for complete identification.

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 and VJ Agar on separate individual surfaces.

Colour

Colour of Plate Count Agar

Light yellow coloured medium

Colour of VJ Agar Medium

Red 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 VJ Agar Medium

pH Range :7.00- 7.40

Cultural Response

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

Organism	Growth	Colour of colony
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
VJ Agar		
<i>Escherichia coli</i> ATCC 25922 (00013*)	inhibited	-
<i>Proteus mirabilis</i> ATCC 25933	poor	black

<i>Staphylococcus aureus</i> subsp.aureus ATCC 25923 (00034*)	luxuriant	black with yellow halo
<i>Staphylococcus epidermidis</i> ATCC 12228 (00036*)	Fair-good	translucent to blackish
<i>Escherichia coli</i> ATCC 8739 (00012*)	inhibited	-
<i>Staphylococcus aureus</i> subsp. aureus ATCC 6538 (00032*)	luxuriant	black with yellow halo

Key :- * Corresponding WDCM numbers

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

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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Disclaimer :

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