



HiDip™ HiCrome™ Universal Agar-PCA

HD041

Intended Use:

Recommended for differential & presumptive identification of microorganisms and total bacteria count.

Composition**

Ingredients	Gms / Litre
HiCrome™ Universal Differential Medium	
Peptone	15.000
Chromogenic mixture	2.500
Tryptone	4.000
Agar	13.500
Final pH (at 25°C)	7.2±0.2

**Formula adjusted, standardized to suit performance parameters

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

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

HiCrome™ Universal Differential Medium is a differential medium recommended for presumptive identification of microorganisms from clinical and non-clinical specimens. These colours are formed due to the reactions of genus or species specific enzymes with the two chromogenic substrates incorporated in the medium. *Enterococcus* species, *E.coli* and coliforms produce enzymes which specifically cleave these chromogenic substrates to give characteristically distinctive colony colours. One of the chromogenic substrate is cleaved by β -glucosidase enzyme possessed by Enterococci resulting in the formation of bluish green colonies. *E. coli* possesses the enzymes β -galactosidase which specifically cleaves the other chromogenic substrate resulting in the formation of purple coloured colonies. *E.coli* can be differentiated and confirmed from other similar coloured colonies, by performing the indole test.

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.

Type of specimen

Clinical sample : faecal dilutions; Water samples

Specimen Collection and Handling

Refer Directions.

Warning and Precautions

In Vitro diagnostic 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:

HiCrome™ Universal Differential Medium

1. Since it is an enzyme-substrate based reaction, the intensity of colour may vary with isolates.

Plate Count Agar

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

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 HiCrome™ Universal Differential Medium and Plate Count Agar Medium on separate individual surfaces.

Colour

Colour of HiCrome™ Universal Differential Medium

Light amber coloured medium

Colour of Plate Count Agar

Light yellow coloured medium

Quantity of medium

1.5ml of medium per surface

Sterility test :

Passes release criteria

pH of HiCrome™ Universal Differential Medium

pH Range : 7.00-7.40

pH of Plate Count Agar

pH Range : 6.80- 7.20

Cultural Response

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

Organism	Growth	Colour of Colony
HiCrome™ Universal Differential Medium		
<i>Enterococcus faecalis</i> ATCC 29212 (00087*)	luxuriant	blue, small
<i>Escherichia coli</i> ATCC 25922 (00013*)	luxuriant	purple
<i>Klebsiella pneumoniae</i> ATCC 13883 (00097*)	luxuriant	blue -green, mucoid
<i>Pseudomonas aeruginosa</i> ATCC 27853 (00025*)	luxuriant	colourless (greenish pigment may be observed)
<i>Proteus mirabilis</i> ATCC 12453	luxuriant	light brown
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*)	luxuriant	golden yellow
<i>Salmonella</i> Typhi ATCC 6539	luxuriant	colourless
<i>Salmonella</i> Typhimurium ATCC 14028 (00031*)	luxuriant	colourless

PCA Medium

<i>Bacillus subtilis</i> subsp. <i>spizizenni</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

Key :- (*) Corresponding WDCM numbers

Storage and Shelf Life

On receipt store between 2-8°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.

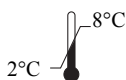
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In vitro diagnostic medical device



CE Marking



Storage temperature



Do not use if package is damaged



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