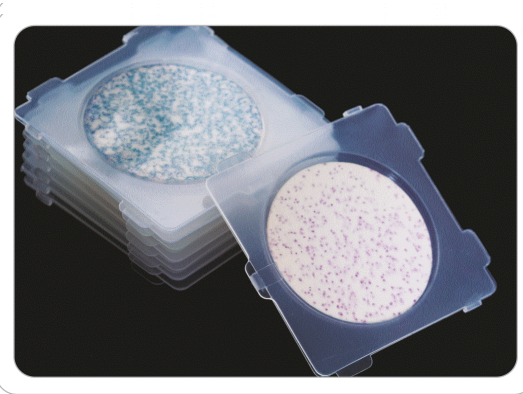


HiPetriSlim™ HiCrome™ E.coli-coliform Water Count

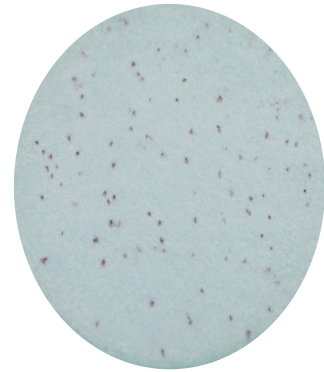
HPS007

Intended use

Recommended for the determination of total *E.coli* and coliforms in water samples by chromogenic method.



Escherichia coli



Klebsiella pneumoniae

Composition**

Proprietary

**Formula adjusted, standardized to suit performance parameters

Directions

Open the pouch aseptically. Open the lid and add the required dilution of 0.5 ml to 1 ml. The solution will be evenly absorbed. Close the lid. Press the sides of the lid to ensure that it is fixed in the grooves. Allow 5-10 minutes for even absorption. Incubate the plates in horizontal position at specified temperature and period. After incubation, count the number of colonies which have appeared on the surface of the medium.

Principle And Interpretation

HiPetriSlim™ HiCrome™ E.coli-coliform Water Count is recommended for the simultaneous detection of *Escherichia coli* and total coliforms in water. The medium is highly nutritious and provides amino acids and long chain peptides for the growth of microorganisms. The enzyme β -glucuronidase produced by *E.coli* utilizes the chromogenic substrate to produce blue-purple coloured colonies. Coliforms other than *Escherichia coli* turn red as they reduce indicator dye. Thus, the resulting colour distinction allows simple interpretation of test without further confirmation.

Salient features :

- Recommended for testing liquid samples
- Widespread Industrial application (Water, Food, Dairy & Cosmetics)
- Compact packing reduces storage space
- No Preparation time
- User-friendly, ready-to-use products
- Available in wide range of products that can be customized as per requirement

Type of specimen

Water and waste water testing laboratories, Other industries, laboratories where microbiological work is carried out.

Specimen Collection and Handling

Refer directions.

After use, contaminated materials should be autoclave at 121°C for 15 minutes before discarding.

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

1. Do not use diluents containing citrate, bisulfite or thiosulfate; they can inhibit growth.
2. β -glucuronidase is present in 97% of *E.coli* strains, however few *E.coli* may be negative.

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

Sterile plastic plate containing pale blue to blue nutrient pad.

Sterility Check

Passes release criteria.

Cultural Response

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

Organism	Inoculum (CFU)	Growth	Colour of Colony
<i>Citrobacter freundii</i> ATCC 8090	50-100	luxuriant	red
<i>Escherichia coli</i> ATCC 25922 (00013*)	50-100	luxuriant	blue
<i>Escherichia coli</i> ATCC 35218	50-100	luxuriant	blue
<i>Enterococcus faecalis</i> ATCC 29212 (00087*)	$\geq 10^4$	inhibited	-
<i>Klebsiella pneumoniae</i> ATCC 13883 (00097*)	50-100	luxuriant	red
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*)	$\geq 10^4$	inhibited	-
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 6538 (00032*)	$\geq 10^4$	inhibited	-

Key : (*) Corresponding WDCM numbers

Storage and Shelf Life

Store between 2-8°C. Use before expiry date on the label. Product performance is best if used within stated expiry period.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques (1,2).

Reference

1. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition
2. Murray P. R., Baron E, J., Jorgensen J. H., Pfaller M. A., Tenover F. C., Tenover R. H., (Eds.), 8th Ed., 2003, Manual of Clinical Microbiology, ASM, Washington, D.C.

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Disclaimer :

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