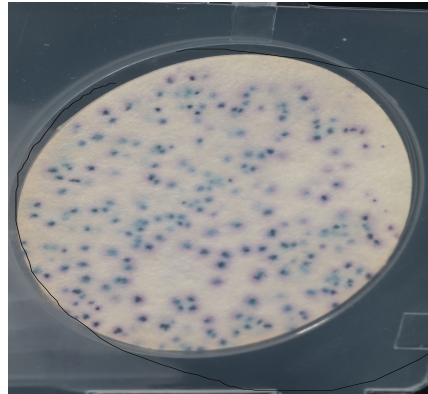
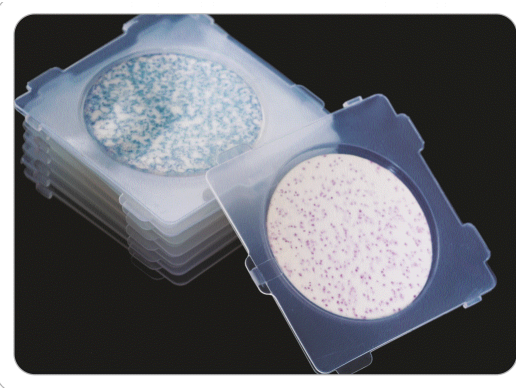


HiPetriSlim™ HiCrome™ E.coli Count

HPS004

Intended use

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



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 Broth is used for detection and differentiation of *Escherichia coli* and coliforms in water samples. The medium is highly nutritious and provides amino acids and long chain peptides for the growth of microorganisms. The medium contains chromogenic mixture, which helps to detect glucuronidase activity of *Escherichia coli* (1). This specific enzyme differentiates *Escherichia coli* from other coliforms. *Escherichia coli* cells split the chromogenic mixture with the help of glucuronidase to give blue colouration to the colonies. Coliforms other than *Escherichia coli* turn red as they reduce TTC (2,3,5-triphenyl tetrazolium chloride).

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

Food and dairy industries, Cosmetic industries, 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 autoclaved 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. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium.
3. Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user's unique requirement.

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 cream to white 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>Klebsiella aerogenes</i> ATCC 13048 (00175*)	50-100	luxuriant	red
<i>Escherichia coli</i> ATCC 25922 (00013*)	50-100	luxuriant	blue
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*)	$\geq 10^4$	inhibited	

Key : (*) Corresponding WDCM numbers, (#) Formerly known as *Enterobacter aerogenes*

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 (2,3).

Reference

1. Anderson J. M. and Baird Parker A.C., (1975), J. Appl. Bact., 39:111.
2. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition
3. Murray P. R, Baron E, J., Jorgensen J. H., Pfaller M. A., Tenover F. C., Tenover F. C., (Eds.), 8th Ed., 2003, Manual of Clinical Microbiology, ASM, Washington, D.C.

Revision : 00/ 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.