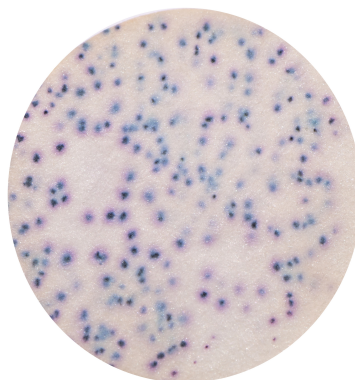
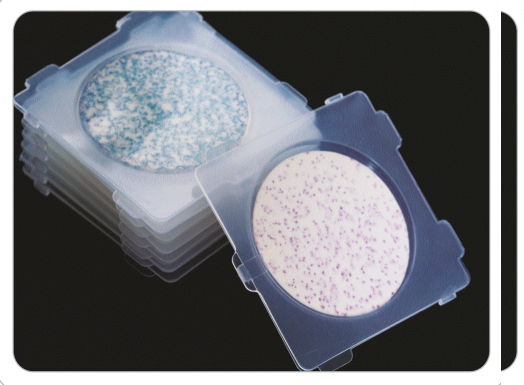


## HiPetriSlim™ HiCrome® E.coli-coliform Count

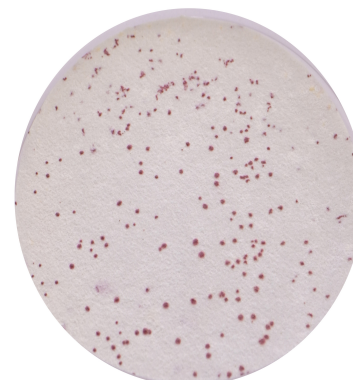
HPS003

### Intended use

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



*Escherichia coli*



*Citrobacter freundii*

### 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 Count is a selective medium recommended for enumeration of *Escherichia coli* and coliform bacteria. The medium is highly nutritious and provides amino acids and long chain peptides for the growth of microorganisms. The enzyme  $\beta$ -D-galactosidase produced by coliforms cleaves 6-chloro-3-indoxy 1- $\beta$ -D-galactopyranoside to form pink to red coloured colonies (1). The enzyme  $\beta$ -D glucuronidase produced by *E.coli*, cleaves 5-bromo-4chloro-3-indoxy 1- $\beta$ -D-glucuronic acid (1). Colonies of *E.coli* give dark blue to violet coloured colonies due to cleavage of both the chromogens.

### 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 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. 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 36°C ± 2 for 21 ± 3 hours

Organism	Inoculum (CFU)	Growth	Colour of Colony
<i>Escherichia coli</i> ATCC 25922 (00013)*	50-100	luxuriant	dark blue to violet
<i>Citrobacter freundii</i> ATCC 43864 (00006)*	50-100	luxuriant	pink to red
# <i>Klebsiella aerogenes</i> ATCC 13048 (00175)*	50-100	luxuriant	pink to red
<i>Enterococcus faecalis</i> ATCC 19433 (00009)*	≥10 <sup>4</sup>	inhibited	-
<i>Pseudomonas aeruginosa</i> ATCC 10145 (00024)*	50-100	luxuriant	colourless

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. International Organization for Standardization. Water quality: Enumeration of *E.coli* and coliform bacteria. Part I- Membrane filtration methods for bacteria with low bacterial background flora. ISO 9308-1:2014/Amd 1:2016.
2. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
3. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W.(2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

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### 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.