



Guangdong Huankai Microbial Sci. & Tech.Co.,Ltd.

广东环凯微生物科技有限公司

Add: No.788,Shenzhou Road,Guangzhou Science City,
Guangzhou,Guangdong Province,China

Tel: +86-20-32078333-8654 Website: www.hkmbio.com

E-mail: hugochiang@163.com

CRM001 Coliform Chromogenic Medium
(Chromogenic Coliform Agar)

Usages:

For the rapid detection and enumeration of coliform bacteria.

Principle:

Peptone and yeast extract powder provides carbon and nitrogen sources and trace elements; sodium chloride maintains osmotic equilibrium; agar as medium coagulant; dodecyl sulfate inhibit Gram-positive bacteria; chromogenic substrate and large intestine flora β -galactosidase-glucosidase specific reaction, hydrolysis of the substrate, the release of the color groups produce green colonies on the light yellow plate.

Formulation (per liter):

Peptone :10g

Yeast extract powder: 3g

sodium chloride:5g

sodium lauryl sulfate:0.1g

Agar :12g

Chromogenic substrate 2.7g

Final pH 7.0 ± 0.2

How to use:

1. Suspend 32.8g of this product, adding 1L of distilled or deionized water , heated to boiling stirring until completely dissolved, dispensing into flask without autoclaving.
- 2.Take 25g or 25mL of sample with aseptic procedures, added to the flask containing 225mL of sterile phosphate buffered saline (or saline) which is shaken thoroughly homogenized with a homogenizer for 1min into a 1:10 dilution, then continue to make for 1:10 dilution. select 3 of appropriate serial dilutions, each dilution was inoculated for 2 plates.
3. Pouring method: Cooled in a water bath to about 50 °C, sterilized petri dish having a diameter 90mm, 1ml samples were inoculated per dish, then poured into about 15ml of the above dissolution medium, and mix to solidify, cultivating at 37 °C for 24 hours.
- 4.Using surface inoculation: cooled to about 50 °C, shake devoted to the medium in sterile petri dish. stored in the refrigerator for a day or stored at room temperature for several days (dark, 4 °C). The sample was streaked method or filter method, cultivating 37 °C for 24 hours.
- 5.observe the results.

Quality control:

This product appear light yellow after pouring into plate, these strains were inoculated after 36 ± 1 °C 18 ~ 24h culture growth in the following table.

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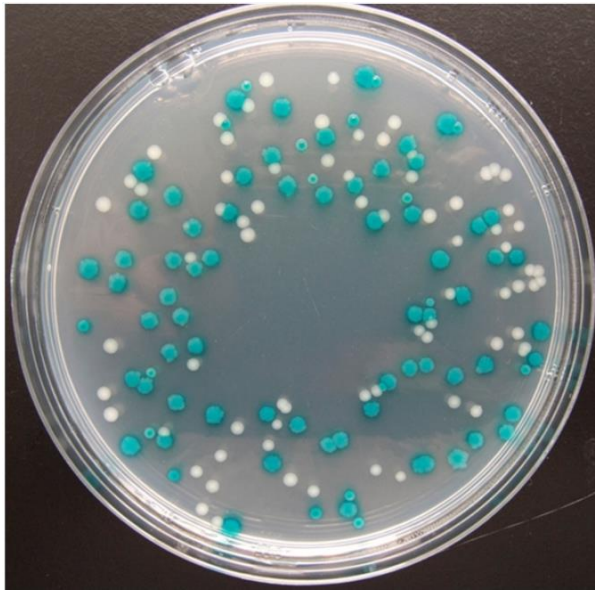
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Strains codes	growth of bacteria	feature
Escherichia coli ATCC25922	good	green colonies
Citrobacter ATCC8090	good	green colonies
Salmonella typhimurium CMCC50115	good	colorless colonies
Enterococcus faecalis ATCC29212	suppressed	-----



Coliforms :Blue-green colonies

Others : Colorless colonies or inhibited

Storage: Keep container tightly closed, store in a cool, dry place, away from bright light.

Specifications: Configurable 1L of Medium .