



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

**广东环凯微生物科技有限公司**

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CRM009 Vibrio Cholerae Chromogenic Medium  
(Chromogenic Vibrio Cholerae Agar)

Usages:

For separation and identification of Vibrio cholera in aquatic products and food poisoning sample.

Principle:

Peptone and yeast extract powder to provide a nitrogen source, vitamins, amino acid and a carbon source; sucrose as fermentable sugars; most non-bacteriostatic agents inhibit Vibrio cholerae bacteria, sodium chloride osmotic pressure balance can be maintained; agar as culture medium coagulant; pigment and Vibrio cholerae enzyme has specific reaction, hydrolysis of the substrate, the release of the color groups to produce yellowish green on the plate - blue-green colonies.

Formulation (per liter):

Peptone: 15g

Yeast extract powder:5g

Sucrose: 10g

Sodium chloride:5g

Bacteriostatic agent :5g

Agar :13g

Pigment:3.1g

Final pH 9.2 ± 0.1

How to use:

1.Suspend 56.1g dissolved in 1000ml of distilled water, according to the proportion of the amplified or reduced. Heated to boiling stirring until completely dissolved, without autoclaving, cooled to about 50 °C, pour into sterile petri dish.

2.Take 25 g (mL) of test sample with aseptic procedure, adding 225ml of alkaline peptone water , with a rotating blade homogenizer at 8 000 r / min homogenized 1 min, or slap slap type homogenizer 2 min, to prepare a uniform dilution 1:10. If no homogenizer, then samples were placed in a sterile mortar and ground, and then placed in 500 mL of sterile container, add 225 mL of alkaline peptone water and thoroughly shaken.

3.Enrichment: 1:10 dilution above were cultured at 36 °C ± 1 °C for 6h ~ 8h, if necessary do secondary enrichment.

4.Cross and separation on Vibrio cholerae plate and incubated at 36 °C ± 1 °C for 18 h ~ 24 h.

5.Further confirmation of Vibrio cholerae hypothetical validation test, such as oxidase, Gram staining.

Quality control:

This product appears light yellow after pouring into plate, these strains were inoculated after 36



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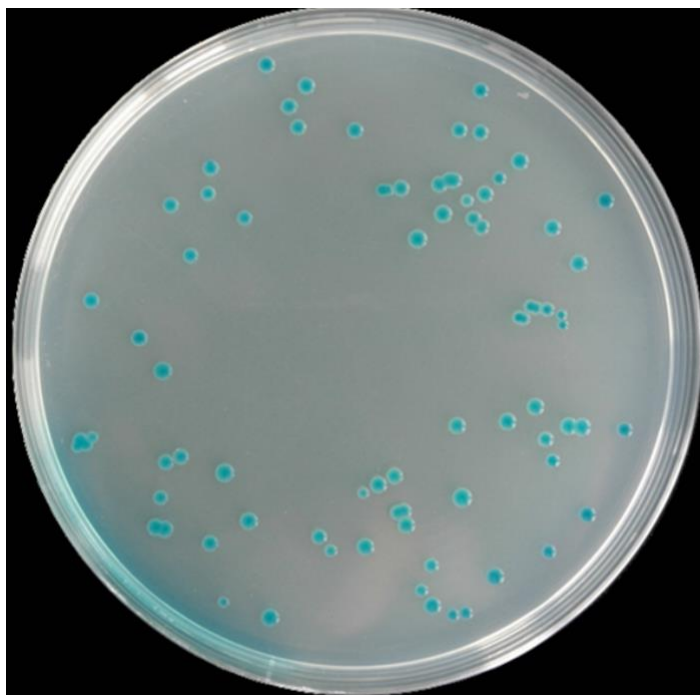
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± 1 °C cultured for 18-24 hours growth in the following table:

Bacteria name	inoculum (cfu / plate)	growth situation	feature
Vibrio cholerae non-VBO 01	30--300	good	green - blue and green
Escherichia coli ATCC 25922	5000	not growth	--
Vibrio vulnificus ATCC27562	5000	not growth	--



**Vibrio cholerae: Blue-green colonies**

**Other bacteria: Colorless or inhibited**

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

Specifications: Configurable 1L of Medium .