



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

## 广东环凯微生物科技有限公司

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CRM007 E. coli O157 Chromogenic Medium  
(Chromogenic E.coli O157 Agar)

### Usages:

For rapid separation and identification of E. coli O157: H7.

### Principle:

Peptone provide carbon and nitrogen; bile salts inhibit the growth of Gram-positive bacteria; and sodium chloride maintains osmotic equilibrium; agar as medium coagulant ; mixing carbohydrates into fermentable sugars; neutral red a pH indicator, the bacteria ferment the sugar acid colonies were pink; potassium tellurite inhibit non E. coli O157: H7 bacteria growth; pigment mixed with E. coli O157: H7 has enzymes that react specifically, hydrolysis of the substrate matter, releasing the color groups to produce blue-green light red colonies on the plate.

### Formulation (per liter):

Peptone :6.0g

Yeast extract powder 2.0g

Sodium chloride 5.0g

Agar 15.0g

Selective additive 0.0005g

Pigment mixture 1.2g

Final pH 7.0 ± 0.2

### How to use:

1.Suspend 29.2g of powder , adding 1L of distilled or deionized water , heated to boiling stirring until completely dissolved, dispensing into flask.

2.After cooling the basal medium to 50 °C , adding 1 vial of (SR0200) sterile potassium tellurite solution for per 100 ml of medium base . mix and pour sterile Petri dish.

### Quality control:

This product appears light red after the pour plate, these strains were inoculated after 36 ± 1 °C cultured for 18-24 hours growth in the following table:

Bacteria name	bacteria NO.	growth situation	feature
E. coli O157: H7	NCTC12900	good	purple red colony
E. coli	ATCC25922	suppressed	blue-green colony
Enterococcus faecalis	ATCC29212	suppressed	--

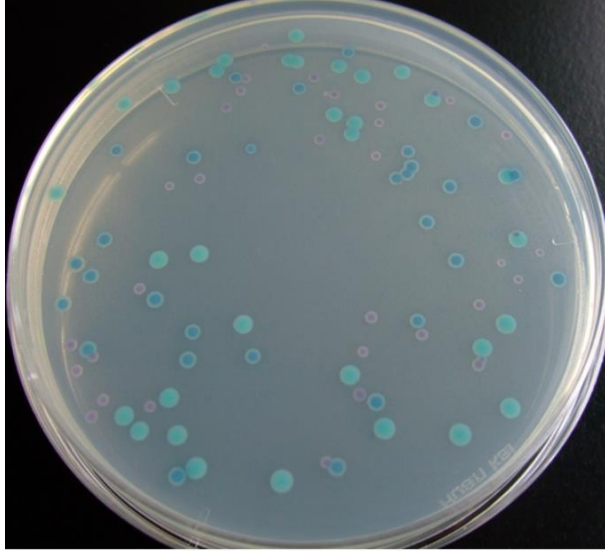
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**E. coli O157: H7 :Purple-red colonies**

**Others:Blue-green colonies**

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

Specifications: Configurable 1L of Medium .