



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

广东环凯微生物科技有限公司

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CRM006 Enterobacter Sakazakii Chromogenic Medium

(Chromogenic Enterobacter Sakazakii Agar)

Usages:

For the identification and counting of *E. sakazakii* in infant formula and other foods sample.

Principle:

Peptone and beef extract powder to provide nitrogen, vitamins, amino acids and carbon; bile salts inhibit Gram-positive bacteria, sodium chloride maintains osmotic equilibrium; agar as medium coagulant; and citric acid, sodium thiosulfate ammonium iron for detecting hydrogen sulfide produced; chromogenic substrate 5-bromo-4-chloro-3-indolyl - α -D-glucoside and the *E. sakazakii* α - glucosidase reacts, hydrolysis of the substrate , the release of 5-bromo-chloro-3-indolyl color groups to produce yellowish green on the plate - blue-green colonies.

Formulation (per liter):

Tryptone: 15g

Soy peptone :5g

Sodium chloride: 5g

Ferric ammonium citrate: 1g

Sodium deoxycholate: 1g

Sodium thiosulfate: 1g

5-bromo-4-chloro-3-indolyl - α -D-glucoside :0.1g

Agar: 15g

Final pH 7.3 ± 0.2

How to use:

1.Suspend 43.1 g of the product, add 1 L of distilled or deionized water, heated to boiling stirring until completely dissolved, dispensing into flask, autoclave at 121 °C for 15minutes; cooled to 50 °C, shake down flat. Can be stored in the refrigerator for a day or stored at room temperature for several days (dark, 4 °C).

2.Take 333 g of sample and using MPN method taking 100 g, 10 g and 1 g aliquots in 2000ml, 250ml and 100ml Erlenmeyer flasks each of the three, the flask was equipped with a preheat in the warp of 45 °C 9/10 (1/10 samples) of sterile distilled water or buffered peptone water, shake cultured at 36 °C for 18-22 hours (SN and FDA methods).

3.The suspension was added to 10ml from each equipped 90mlEE broth (022160) / mLST-Vm (022212) in 150mL flasks, culture at 36 °C / 44 °C for 18-22 hours.

4.Crossed or coating method to mix the broth inoculated onto *E. sakazakii* chromogenic agar, culture at 35-37 °C for 18-24 hours.

5. Use MicrogenTMGN-ID or API20E or biochemical test tube, suspected *Enterobacter sakazakii* colonies biochemical identification.



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Quality control:

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

Bacteria name	Number of inoculation(cfu/plate)	growth situation	feature
Enterobacter sakazakii ATCC51329	30 - 300	good	Green -Blue Green
Common variant of Bacillus HK7132	30 - 300	good	gray-black
Serratia bacteria Serratia HK7121	5000	not long	--
Enterococcus faecalis ATCC29212	5000	not long	--



Enterobacter sakazakii:Blue-green colonies

Others : Colorless colonies or inhibited

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

Specifications: 1000ml