

CES (Color Enterobacter Sakazakii) Agar



Medium used for the isolation and cultivation of *Enterobacter sakazakii*.

*Equally use with MFDS (MB-C2130K).

• CONTENTS (Liter)

Tryptone	15.0 g
Soy Peptone	5.0 g
Sodium Chloride	5.0 g
Ferric Amonium Citrate	1.0 g
Sodium Desoxycholate	1.0 g
Sodium Thiosulphate	1.0 g
Chromogenic mixture	0.1 g
Agar	15.0 g

Final pH = 7.3 ± 0.2 at 25°C

• PROCEDURE

Suspend 43.1 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121 °C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

• INTERPRETATION

CES (Color Enterobacter Sakazakii) Agar is used for the isolation and cultivation of *Enterobacter sakazakii*. Tryptone and soy peptone provide nitrogen and carbon. Sodium chloride supplies essential electrolytes for transport and maintains osmotic balance. Ferric ammonium citrate and sodium thiosulphate are included in the medium as indicators of hydrogen sulfide production. Sodium desoxycholate inhibits Gram-positive bacteria. Chromogenic mixture serves as a indicator for *Enterobacter sakazakii*. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen with spreading the specimen on surface of the medium using a sterile loop. Incubate at 36 ± 1 °C for 24 ± 2 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free flowing, homogeneous

Color: beige

Prepared medium

Appearance : opaque

Color: amber

Incubation conditions: 36 ± 1 °C / 24 ± 2 hours

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Enterobacter sakazakii</i>	29544	50-100	good	blue-green colonies
<i>Escherichia coli</i>	25922	50-100	partially inhibited	straw colonies
<i>Staphylococcus aureus</i>	25923	≥10 ³	inhibited	-

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Iversen C., Druggan P. D. and Forsythe S. J. Int. J. Food Microbiology 2003. In Press.
2. Nazarowec-White M. and Farber J. M. Int. J. of Food Microbiol. 1997; 34. 103-113.
3. Breeuwer P., Lardeau A., Peterz M. and Joosten H. M. J. of App. Microbiol. 2003; 5. 967.
4. Muytjens H. L., van der Ros-van de Repe, J. and van Druten H. A. M. J. Clin. Microbiol. 1984; 20. 684-686.
5. Refer to the MFDS.

• PACKAGE

Cat. No : MB-C2130 CES (Color Enterobacter Sakazakii) Agar	500 G
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