

E. sakazakii Agar

Medium used for the isolation and identification of *Enterobacter sakazakii* in foods.

*Equally use with MFDS (MB-S1393K).

• CONTENTS (Liter)

Tryptone	20.0 g
Bile Salts No. 3	1.5 g
Sodium Thiosulphate	1.0 g
Ferric Ammonium Citrate	1.0 g
MUG α -D-glucopyranoside	0.05 g
Agar	15.0 g
Final pH = 7.0 \pm 0.2 at 25°C	

• PROCEDURE

Suspend 38.55 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

E. sakazakii Agar is a medium used for the isolation and identification of *Enterobacter sakazakii* in foods. Tryptone provides carbon and nitrogen. Bile salts No. 3 inhibits Gram-positive organisms. Sodium thiosulphate and ferric ammonium citrate are included in the medium as indicators of hydrogen sulfide production. MUG α -D-glucopyranoside is a chromogenic substrate for α -D-glucopyranosidase. MUG is cleaved by enzyme glucuronidase and the product of hydrolysis, 4-methylumbelliferone, is detectable under UV. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 35 - 37°C for 24 \pm 2 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

Prepared medium

Appearance : slightly opalescent

Color: light amber

Incubation conditions: 35 - 37°C / 24 \pm 2 hours

Microorganism	ATCC	Growth	Fluorescence
<i>Enterobacter sakazakii</i>	29544	good	+
<i>Salmonella typhimurium</i>	14028	good	-

• 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. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Oh, S-W., and D-H. Kang. 2004. Appl. Environ. Microbiol. 70: 5692-5694.
2. Food and Drug Administration. Bacteriological analytical manual, 8th ed., Rev. 2002. Isolation and enumeration of *Enterobacter sakazakii* from dehydrated powdered infant formula. Gaithersburg, MD.
3. Urmenyi, A. M. C. and A. W. Franklin. 1961. Neonatal death from pigmented coliform infection. Lancet 1:313-315.
4. Mossel, Vissar, and Cornellisen. 1963. J. Appl. Bacteriol. 26:444.
5. Refer to the MFDS.

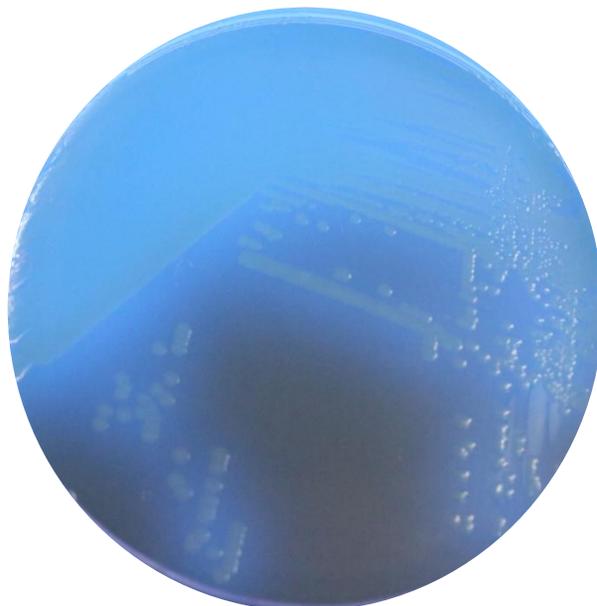
• PACKAGE

Cat. No : MB-S1393 <i>E. sakazakii</i> Agar	500 G
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• MICROBIAL CULTURE IMAGES



None



Enterobacter sakazakii ATCC 29544

Incubation conditions : 35 - 37°C 24 ±2 h