KOSER Citrate Broth



Medium used for the differentiation and isolation of Enterobacter based on citrate utilization.

CONTENTS (Liter)

Sodium Ammonium Phosphate	1.5 g
Monopotassium Phosphate	1.0 g
Magnesium Sulfate	0.2 g
Sodium Citrate	3.0 g
E: 1 11 0 7 1 0 0 1 0 E 0 0	-

Final pH = 6.7 ± 0.2 at 25°C.

PROCEDURE

Suspend 5.7 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. Dispense in tubes.

INTERPRETATION

KOSER Citrate Broth is a medium used for the differentiation and isolation of Enterobacter on the basis of citrate utilization. Sodium ammonium phosphate and magnessium sulfate provide essential ions for growth. Monopotassium phosphate is a buffer. Enterobacter use sodium citrate as a source of carbon, but *Escherichia coli* does not, so it cannot grow in the medium.

TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at $35 \pm 2^{\circ}$ C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: white.

Prepared medium

Appearance: clear to slightly opalescent.

Color: colorless.

Incubation conditions: $35 \pm 2^{\circ}$ C / 18 - 24 hours

Microorganism	ATCC	Inoculum CFU	Growth
Enterobacter aerogenes	13048	50-100	good
Enterobacter agglomerans	27987	50-100	good
Enterobacter cloacae	7256	50-100	good
Enterococcus faecalis	29212	≥10³	inhibited
Escherichia coli	25922	≥10³	inhibited
Staphylococcus aureus	25923	≥10³	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.

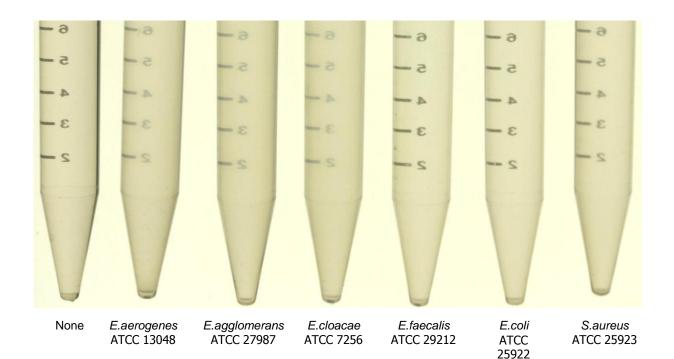
REFERENCES

- 1. Bowers and Hucker. 1935. Tech. Bull. 228. New York State Agr. Exp. Sta., Geneva, N.Y.
- 2. Proc. 36th Cong. Intern. Assoc. Ice Cream Manufacturers. 1936. 2:132.
- 3. Dennis and Weiser. 1937. J. Dairy Science 20:445.

PACKAGE

Cat. No : MB-K1165 KOSER Citrate Broth	500 G
---	-------

MICROBIAL CULTURE IMAGES



Incubation conditions : 35 \pm 2 $^{\circ}$ C 18 - 24h



KisanBio Co., Ltd.