



Enrichment Broth for ECO157:H7

M1599

Enrichment Broth for ECO157:H7 is used as an enrichment broth for the growth of *E. coli* O157:H7 from food and environmental samples.

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	10.000
Sorbitol	10.000
Bile salts mixture	1.500
Sodium chloride	5.000
Final pH (at 25°C)	7.1±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 26.5 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE. Mix well and dispense into sterile test tubes.

Principle And Interpretation

Enrichment Broth for ECO157:H7 is based on the formulation described by Rappaport and Henigh (1). *Escherichia coli* O157:H7 has been recognized as a cause of hemorrhagic colitis (2).

Casein enzymic hydrolysate provides nitrogenous, carbonaceous compounds and other essential growth nutrients. Sorbitol is a fermentable sugar, bile salt mixture inhibits most of the gram positive organisms.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light yellow coloured clear solution without any precipitate

Reaction

Reaction of 2.65% w/v aqueous solution at 25°C. pH : 7.1±0.2

pH

6.90-7.30

Cultural Response

M1599: Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 24 hours.

Organism	Inoculum (CFU)	Growth
Cultural Response		
<i>Escherichia coli</i> ATCC 25922	50-100	luxuriant
<i>Escherichia coli</i> O157:H7 NCTC 12900	50-100	luxuriant
<i>Enterococcus faecalis</i> ATCC 29212	≥10 ³	inhibited
<i>Enterobacter sakazakii</i> ATCC 12868	50-100	luxuriant
<i>Klebsiella pneumoniae</i> ATCC 13883	50-100	luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	≥10 ³	inhibited

<i>Salmonella Enteritidis</i> ATCC 50-100 13076	luxuriant
<i>Shigella flexneri</i> ATCC 50-100 12022	good

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

- 1.Rappaport F and Henigh E., J. Clin. Path., 5:361.
- 2.Karmali M. A., Petric M., Lim C., et al, 1985, J. Infect. Dis., 151:775.

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