



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Enrichment Broth for ECO157:H7

Product Code: DM 2599

Application: - Enrichment Broth for ECO157:H7 is recommended 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

Principle & 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 supplies nitrogenous, carbonaceous compounds and other essential growth nutrients. Sorbitol is a fermentable sugar, bile salt mixture prevent most of the gram positive organisms.

Methodology

Suspend 26.5 grams of dehydrated media in 1000 ml distilled water. Mix thoroughly & heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE. Shake well and dispense into sterile test tubes.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity

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 Range

6.90-7.30

Cultural Response

DM2599: 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





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<i>Enterobacter sakazakii</i> ATCC 12868	50-100	luxuriant
<i>Klebsiella pneumoniae</i> ATCC 13883	50-100	luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	$\geq 10^3$	inhibited
<i>Salmonella Enteritidis</i> ATCC 13076	50-100	luxuriant
<i>Shigella flexneri</i> ATCC 12022	50-100	good

Storage and Shelf Life

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

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

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.

Disclaimer :

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