E.T. Medium

M854

Intended Use:

Recommended for mass cultivation of Clostridia for enterotoxin production.

Composition**

Ingredients	Gms / Litre
HL infusion from#	250.000
HM infusion B from $	250.000
Peptone, special	20.000
Sodium chloride	5.000
Dipotassium hydrogen phosphate	4.000
Final pH (at 25°C)	8.4±0.2

**Formula adjusted, standardized to suit performance parameters
Equivalent to Liver, infusion from
$ Equivalent to Beef heart, infusion from

Directions

Suspend 39 grams in 1000 ml purified / distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

E.T Medium is used for the mass cultivation of Clostridia for enterotoxin production.
The media contains HL infusion from which due to its nutrients characteristics is recommended for cultivation of fastidious anaerobic bacteria such as Clostridia. The medium also contains HM infusion B, the muscle protein which provides amino acids and other nutrients.

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Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (3,4).
For food and dairy samples, follow appropriate techniques for sample collection and processing as per guidelines (2,6,8).
After use, contaminated materials must be sterilized by autoclaving before discarding.

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In Vitro diagnostic use. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Quality Control

Appearance
Cream to brownish yellow coloured with pink tinge homogeneous free flowing powder

Colour and Clarity of prepared medium
Amber coloured clear to slightly opalescent solution.

Reaction
Reaction of 3.9% aqueous solution at 25°C. pH : 8.4±0.2

pH
8.20-8.60

Cultural Response
Cultural characteristics observed under 10% Carbon dioxide(CO2) after an incubation at 35-37°C for 24-72 hours

Organism	Inoculum (CFU)	Growth
Staphylococcus aureus ATCC 25923	50-100	good-luxuriant
Clostridium botulinum ATCC 25763	50-100	luxuriant
Clostridium perfringensATCC 12924	50-100	luxuriant
Clostridium sporogenes ATCC 11437	50-100	luxuriant