



## Soyabean Casein Digest Agar w/LTHTh, Modified

M1835

### Intended Use:

Recommended for determining efficiency of sanitization of containers, equipment surfaces, water miscible cosmetics, etc. It can also enumerate the organisms from water insoluble products and fatty products containing preservatives or antimicrobials.

### Composition\*\*

Ingredients	Gms / Litre
Tryptone	15.000
Soya peptone	5.000
Sodium chloride	5.000
Lecithin	3.000
Polysorbate 80 (Tween 80)	30.000
Histidine	1.000
Sodium thiosulphate	5.000
Agar	18.000
Final pH ( at 25°C)	7.3±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 82.0 grams in 1000 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates.

### Principle And Interpretation

Soyabean Casein Digest Agar w/ LTHTh is used for the detection and enumeration of microorganisms for products of sanitary importance, water miscible cosmetics, Products containing antimicrobials or preservatives (1)

Tryptone and soya peptone provide nitrogenous compounds and other nutrients essential for microbial replication. Lecithin, polysorbate 80 (Tween 80) and thiosulphate act as neutralizing agents reported to neutralize the activity of antimicrobial agents. Lecithin and polysorbate 80 neutralizes quaternary ammonium compounds and parahydroxy benzoates. Sodium thiosulphate neutralizes mercurial, halogens, aldehydes etc. Histidine acts as a reducing agent.

Collection of samples from areas before and after the treatment with disinfectant evaluates cleaning procedures in environmental sanitation. The presence and number of microorganisms is determined by the appearance of colonies on the agar surface (2).

### Type of specimen

Sanitization of containers, Equipment surfaces, Water miscible cosmetics etc.

### Specimen Collection and Handling:

For sanitization of containers, equipment surfaces, water miscible cosmetics samples follow appropriate techniques for handling specimens as per established guidelines (1).

After use, contaminated materials must be sterilized by autoclaving before discarding.

### Warning and Precautions :

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 specimens. Safety guidelines may be referred in individual safety data sheets.

### Limitations :

- 1.This medium is general purpose medium and may not support the growth of fastidious organisms.
2. Further biochemical and serological test must be carried out for further identification.

## Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label. The medium is stored at recommended temperature.

## Quality Control

### Appearance

Cream to yellow homogeneous free flowing powder

### Gelling

Firm, comparable with 1.8% Agar gel

### Colour and Clarity of prepared medium

Light to medium amber coloured, clear to slightly opalescent gel forms in Petri plates

### Reaction

Reaction of 8.20% w/v aqueous solution at 25°C. pH : 7.3±0.2

### pH

7.10-7.50

### Cultural

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

Organism	Growth	Growth w/ disinfectant
<b>Cultural Response</b> <i>Escherichia coli</i> ATCC 25922	luxuriant	fair-good, (depends on concentration of quaternary ammonium compounds)
<i>Pseudomonas aeruginosa</i> ATCC 27853	luxuriant	fair-good, (depends on concentration of quaternary ammonium compounds)
<i>Staphylococcus aureus</i> ATCC 25923	luxuriant	fair-good, (depends on concentration of quaternary ammonium compounds)

## Reference

- 1.Hall and Hartnett, 1964, Public Hlth. Rep., 79:1021.
- 2.Murray PR, Baron, Pfaller, and Tenenbaum (Eds.), 2003, In Manual of Clinical Microbiology, 8th ed., ASM, Washington, D.C.

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### Disclaimer :

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