



## Soyabean Casein Digest Agar Plate w/ LTHTh

SP1691G

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

### Composition\*\*

Ingredients	Gms / Litre
Casein enzymic hydrolysate	5.000
Soya peptone	5.000
Sodium chloride	5.000
Lecithin	0.700
Polysorbate 80 (Tween 80)	5.000
Histidine	0.500
Sodium thiosulphate	0.500
Agar	15.000

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

### Directions

Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate

### 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) Casein enzymic hydrolysate and papaic digest of soyabean meal 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).

### Quality Control

#### Appearance

Sterile Soyabean Casein Digest Agar Plate w/LTHTh in 55mm scored disposable plates with convex surface and absence of black particles/ cracks/ bubbles.

#### Colour

Light to Medium Amber coloured medium.

#### Quantity of Medium

20ml of medium in 55 mm scored plate.

#### pH

7.10- 7.50

#### Dose of irradiation

10.00- 25.00

#### Sterility test

Passes release criteria

#### Cultural Response

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

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

## Storage and Shelf Life

Store between 20-30°C. Use before expiry date on the label.

## Reference

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

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