

# TM 1928 - SOYA CASEIN DIGEST AGAR W/LTHTh, Modified

#### **INTENDED USE**

For determining the efficiency of sanitization of containers, equipment surfaces etc. and for enumeration of organisms from water insoluble & fatty products containing antimicrobials or preservatives.

### **PRODUCT SUMMARY AND EXPLANATION**

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.

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.

# COMPOSITION

Ingredients	Gms / Ltr		
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		

## PRINCIPLE

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.

#### **INSTRUCTION FOR USE**

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

## QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow homogeneous free flowing powder.		
Appearance of prepared medium	: Light to medium amber coloured, clear to slightly opalescent gel forms in Petri plates.		
pH (at 25°C)	: 7.3±0.2		

#### **INTERPRETATION**

Cultural characteristics observed after an incubation.

A- 902A, RIICO Industrial Area, Phase III, Bhiwadi-301019.



# PRODUCT DATA SHEET



Microorgani sm	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Growth w/ disinfectant	Incubation Temperatur e	Incubatio n Period
Escherichia coli	25922	50-100	Luxuriant	>=70%	Fair-good, (depends on concentration of quaternary ammonium compounds)	35-37°C	18-24 Hours
Pseudomona s aeruginosa	27853	50-100	Luxuriant	>=70%	Fair-good, (depends on concentration of quaternary ammonium compounds)	35-37°C	18-24 Hours
Staphylococc us aureus subsp. aureus	25923	50-100	Luxuriant	>=70%	Fair-good, (depends on concentration of quaternary ammonium compounds)	35-37°C	18-24 Hours

# PACKAGING:

In pack size of 100 gm and 500 gm bottles.

## **STORAGE**

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

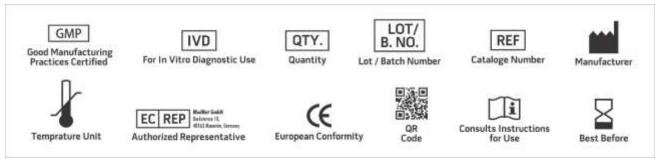
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

#### DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

#### REFERENCES

- 1. Hall and Hartnett, 1964, Public Hlth. Rep., 79:1021.
- 2. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2<sup>nd</sup> Edition.
- 3. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
- 4. Murray PR, Baron, Pfaller, and Yolken (Eds.), 2003, In Manual of Clinical Microbiology, 8th ed., ASM, Washington, D.C.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices. \*For Lab Use Only

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**PRODUCT DATA SHEET** 

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