

## TM 1896 - SOYABEAN CASEIN DIGEST MEDIUM WITH NEUTRALIZER

### INTENDED USE

This medium is used for determining 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.

### PRODUCT SUMMARY AND EXPLANATION

Soyabean Casein Digest Medium w/ Neutralizer 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 surface.

### COMPOSITION

Ingredients	Gms / Ltr
Lecithin (Soya)	3.000
Histidine hydrochloride	1.000
Pancreatic digest of casein	17.000
Soya peptone	3.000
Sodium chloride	5.000
Dipotassium hydrogen phosphate	2.500
Glucose monohydrate	2.500

### PRINCIPLE

Tryptone and soya peptone provide nitrogenous compounds and other nutrients essential for microbial replication. Lecithin, polysorbate 80 (Tween 80) neutralizes quaternary ammonium compounds and parahydroxy benzoates. Histidine acts as a reducing agent.

### INSTRUCTION FOR USE

- Dissolve 33.77 grams (equivalent weight of dehydrated medium per litre) in 1000 ml purified/distilled water containing 30 grams of Polysorbate 80 (Tween 80).
- Heat if necessary to dissolve the medium completely.
- Dispense in tubes or flasks as desired. Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

### 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.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Growth w/ disinfectant	Incubation Temperature	Incubation Period
<i>Escherichia coli</i>	25922	50-100	Luxuriant	Fair-good, (depends on concentration of quaternary ammonium compounds)	35 - 37°C	18-24 Hours
<i>Pseudomonas aeruginosa</i>	27853	50-100	Luxuriant	Fair-good, (depends on concentration of quaternary ammonium compounds)	35 - 37°C	18-24 Hours
<i>Staphylococcus aureus subsp.aureus</i>	25923	50-100	Luxuriant	Fair-good, (depends on concentration of quaternary ammonium compounds)	35 - 37°C	18-24 Hours

**PACKAGING:**

In pack size of 500 gm bottles.

**STORAGE**

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 10-25°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.







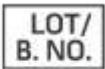


**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

**DISPOSAL**

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

**REFERENCES**

- Hall and Hartnett, 1964, Public Hlth. Rep., 79:1021.
- Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2<sup>nd</sup> Edition.
- 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.
- Murray PR, Baron, Pfaller, and Tenover (Eds.), 2003, In Manual of Clinical Microbiology, 8th ed., ASM, Washington, D.C.

 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. Lot / Batch Number	 Consults Instructions for Use	 QR Code	

**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

**\*For Lab Use Only**  
Revision: 14 Mar., 2023