



Soyabean Casein Digest Medium with Neutralizer

M1982

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.

Composition**

| Ingredients | Gms / Litre |
|--------------------------------|-------------|
| Lecithin (Soya) | 3.000 |
| Histidine hydrochloride | 1.000 |
| Pancreatic digest of casein | 17.000 |
| Papaic digest of soyabean | 3.000 |
| Sodium chloride | 5.000 |
| Dipotassium hydrogen phosphate | 2.500 |
| Glucose monhydrate | 2.500 |
| Final pH (at 25°C) | 7.3±0.2 |

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 33.77 grams (equivalent weight of dehydrated medium per litre) in 1000 ml 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 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

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 (1)

Pancreatic digest of casein and papaic digest of soyabean 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.

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

Cream to yellow homogeneous free flowing powder

Colour and Clarity of Prepared Medium

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

Reaction

Reaction of 3.37% w/v aqueous solution at 25°C. pH : 7.3±0.2

pH

7.10-7.50

Cultural Response

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

Cultural Response

| Organism | Growth | Growth w/ disinfectant |
|---|-----------|---------------------------|
| Cultural Response <i>Escherichia coli</i> ATCC 25922 | luxuriant | fair-good, (depends on |

| | | |
|---|-----------|---|
| <i>Pseudomonas aeruginosa</i> ATCC 27853 | luxuriant | concentration of quarternary ammonium compounds) 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 below 30°C in tightly closed container and prepared medium at 2-8 °C. Use before expiry date on 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.

Revision : 0 / 2014



Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.