



# Technical Data

## Soyabean Casein Digest Medium w/ neutralising Fluid 2

M1982

### Intended Use:

Recommended 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
Tryptone \$	17.000
Soya peptone #	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

\$ - Equivalent to Pancreatic digest of casein

#- Equivalent to Soya peptone

### Directions

Suspend 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 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)

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.

Collection of samples from areas before and after the treatment with disinfectant evaluates cleaning procedures in Collection of samples from areas before and after the treatment with disinfectant evaluates cleaning procedures in agar surface (4).

### Type of specimen

Sanitary products, water miscible cosmetics.

### Specimen Collection and Handling

For sanitary products, water miscible cosmetics 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 tests must be carried out for further identification.
3. Some organism may show poor growth due to nutritional variation.

## Performance and Evaluation

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

## 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.

Organism	Growth	Growth w/ disinfectant
<i>Escherichia coli</i> ATCC 25922 (00013*)	luxuriant	fair-good, (depends on concentration of quarternary ammonium compounds)
<i>Pseudomonas aeruginosa</i> ATCC 27853 (00025*)	luxuriant	fair-good, (depends on concentration of quarternary ammonium compounds)
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*)	luxuriant	fair-good, (depends on concentration of quarternary ammonium compounds)

Key : \*Corresponding WDCM numbers.

## Storage and Shelf Life

Store between 10-30°C in a tightly closed container and the prepared medium at 15-25°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition Seal the container tightly after use.

Product performance is best if used within stated expiry period.

## Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques (2,3).

## Reference

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 Tenover (Eds.), 2003, In Manual of Clinical Microbiology, 8th ed., ASM, Washington, D.C.

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### Disclaimer :

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