**Fluid Casein Digest-Soy Lecithin- Polysorbate 20 Medium**

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| **Product No.** | **Product Category** | **Specification** |
| HCM040 | Dehydrated Culture Medium | 500g/bottle |

**Intended Use**

For sample dilution.

**Principle and Interpretation**

The medium contains pancreatic digest of casein which provide the necessary nutrients for the growth of the organisms. Soy lecithin neutralizes the quaternary ammonium compounds while polysorbate 20 neutralizes phenolic disinfectants, hexachlorophene and formalin.

**Formulation**

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| **Ingredients** | **/liter** |
| Pancreatic digest of casein | 20.0g |
| Soy lecithin | 5.0g |
| pH7.2±0.2 at 25°C | |

**Preparation**

Suspend 25.0 g in 960mL of distilled or deionized water. Heating in a water bath at 48℃ to 50℃ minutes to effect solution. Add 40mL of polysorbate 20. Distribute into tubes or flasks. Autoclave at 121℃ for 15 minutes.

**Quality Control**

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

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| **Quality control strains** | **Expected Results** |
| *Staphylococcus aureus* ATCC6538 | Good ,broth turbid |
| *Pseudomonas aeruginosa* ATCC9027 | Good ,broth turbid |
| *Escherichia coli* ATCC25922 | Good ,broth turbid |
| *Salmonella typhimurium* ATCC14028 | Good ,broth turbid |
| *Bacillus subtilis* ATCC6633 | Good ,broth turbid |

Cultural characteristics observed after an incubation at 35-37°C for 48 hours.

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| **Quality control strains** | **Expected Results** |
| *Candida albicans* ATCC10231 | Good ,broth turbid |

**Storage and Shelf Life**

2-30℃，Keep container tightly closed, avoid direct sunlight.

Use before expiry date on the label.

**Precautions**

1. When weighing the dehydrated medium, please wear masks to avoid causing respiratory system discomfort

2. Keep container tightly closed after using to prevent clumping.

**Waste Disposal**

Microbiological contamination was disposed by autoclaving at 121°C for 30 minutes.

**Revision**

On June 14, 2024

**References**

1. US PHARMAKOPOEIA (2002) <61> Microbial Limits Tests. 25th ed. US Pharmacopoeial Conv.Inc.Rockville.MD

2. Weber and Black,1948,Soap and Sanitary Chemicals,24:134

3. Weber and Black,1948,Am.J.Public Heath,38:1405

4. Favero (chm.),Microbiological Sampling of Surfaces,Biological Contamination Control Comitee,

American Asso. for contamination control (1967)