



Fluid Casein Digest Soya Lecithin-Polysorbate 20 Medium (Twin Pack) Medium B. (In accordance with I.P. 2007)

MM117

Fluid Casein Digest Soya Lecithin-Polysorbate 20 Medium is recommended for sanitary examination of surfaces in accordance with Indian Pharmacopoeia, 2007

Composition**

Ingredients	Gms / Litre
Part A	-
Pancreatic digest of casein	20.000
Soya lecithin	5.000
Part B	-
Polysorbate 20	40.000

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 25 grams of Part A in 960 ml purified/distilled water. Heat in a water bath at 48-50°C for about 30 minutes. Add 40 ml of Part B. Mix well and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Fluid Casein Digest Soya Lecithin Polysorbate 20 Medium is recommended for sanitary examination of surfaces (1). Weber and Black had described the importance of a highly nutritional medium containing the neutralizing agents for quaternary ammonium compounds (2,3).

The medium contains pancreatic digest of casein which provide the necessary nutrients for the growth of the organisms. Soya lecithin neutralizes the quaternary ammonium compounds while polysorbate 20 neutralizes phenolic disinfectants, hexachlorophene and formalin (4).

This medium is also recommended by NASA for the microbiological sampling of environmental surfaces sanitized with quaternary ammonium compounds (5).

Quality Control

Appearance

Part A : Cream to yellow homogeneous free flowing powder Part B : Colourless clear viscous liquid

Colour and Clarity of prepared medium

Yellow coloured clear solution without any precipitate

Growth Promotion Test

As per Indian Pharmacopoeia.

Cultural Response

Organism	Inoculum (CFU)	Growth
Cultural Response		
<i>Candida albicans</i> ATCC 10231	50-100	good-luxuriant
<i>Bacillus subtilis</i> ATCC 6633	50-100	good-luxuriant
<i>Escherichia coli</i> ATCC 25922	50-100	good-luxuriant
<i>Escherichia coli</i> ATCC 8739	50-100	good-luxuriant
<i>Staphylococcus aureus</i> ATCC 6538		

Storage and Shelf Life

Store below 30°C in tightly closed container and prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

1. Indian Pharmacopoeia, 2007, Govt. of India, Ministry of Health and Family Welfare, Controller of Publications, New Delhi.
2. Weber and Black, 1948, Soap and Sanitary Chemicals, 24:134.
3. Weber and Black, 1948, Am. J. Public Health, 38:1405.
4. Favero (chm.), 1967, Microbiological Sampling of Surfaces, Biological Contamination Control Committee, American Asso. for Contamination Control.
5. National Aeronautics and Space Administration, 1966, Standard Procedures for the Microbiological Examination of Space Hardware.

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