PRODUCT SPECIFICATION SHEET

Fluid Casein Digest Soya Lecithin-Polysorbate 20 Medium (Twin Pack) (DM793I)

Intended Use
Fluid Casein Digest Soya Lecithin-Polysorbate 20 Medium (Twin Pack) (DM793I) is recommended for sanitary examination of surfaces in compliance with IP.

Product Summary and Explanation
Fluid Casein Digest Soy Lecithin-Polysorbate 20 Medium is recommended for sanitary examination of surfaces and is formulated in accordance with Indian Pharmacopeia.[1] The importance of a highly nutritional medium containing neutralizing agents for neutralizing quaternary ammonium compounds was described Weber and Black.[2,3] This medium is also recommended by NASA for the microbiological sampling of environmental surfaces sanitized with quaternary ammonium compounds.[4]

Principles of the Procedure
Fluid Casein Digest Soya Lecithin-Polysorbate 20 Medium (Twin Pack) contains casein enzymic hydrolysate which serves as sources of carbon, nitrogen, vitamins and minerals required for growth of microorganisms. Soya lecithin neutralizes the quaternary ammonium compounds while polysorbate 20 neutralizes phenolic disinfectants, hexachlorophene and formalin.[5]

Formula / Liter

Ingredients	Gms / Liter
Part A	--
Casein enzymic hydrolysate	20.00
Soya lecithin	5.00
Part B	--
Polysorbate 20	40.00
Formula may be adjusted and/or supplemented as required to meet performance specifications	

Precautions
1. For Laboratory Use only.
2. IRRITANT. Irritating to eyes, respiratory system, and skin.

Directions
1. Suspend 25 grams of Part A in 960 ml distilled water.
2. Heat if necessary to dissolve the medium completely.
3. Add 40 ml of Part B.
4. Autoclave at 121°C, 15 psi pressure, for 15 minutes / validated cycle.
5. Mix well and dispense as desired.

Quality Control Specifications

Dehydrated Appearance	Part A :Cream to yellow homogeneous free flowing powder Part B : Colourless clear viscous liquid
Prepared Medium	Yellow coloured, clear solution without any precipitate
Reaction of % solution	Not Applicable
Gel Strength	Not Applicable

Growth Promotion Test
As per Indian Pharmacopoeia.

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Expected Cultural Response: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours (for fungal species incubate at 25-30°C for 24-48 hrs).

Sr. No.	Organisms	Results to be achieved	
		Inoculum (CFU)	Growth
1.	*Candida albicans ATCC 10231*	50-100	good-luxuriant
2.	*Bacillus subtilis ATCC 6633*	50-100	good-luxuriant
3.	*Escherichia coli ATCC 25922*	50-100	good-luxuriant
4.	*Escherichia coli ATCC 8739*	50-100	good-luxuriant
5.	*Staphylococcus aureus ATCC 6538*	50-100	good-luxuriant

The organisms listed are the minimum that should be used for quality control testing.

Test Procedure
Refer to appropriate references for standard test procedures.

Results
Refer to appropriate references and standard test procedures for interpretation of results.

Storage
Store the sealed bottle containing the dehydrated medium at 10 - 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light.

Expiration
Refer to the expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing, or if the appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Limitations of the Procedure
1. For identification, organisms must be in pure culture. Morphological, biochemical and/or serological tests should be performed for final identification.
2. Consult appropriate texts for detailed information and recommended procedures.

Packaging
Product Name : Fluid Casein Digest Soya Lecithin-Polysorbate 20 Medium (Twin Pack)
Product Code : DM793I
Available Pack sizes : 100gm / 500gm

References

1. Indian pharmacopoeia, 1997, Govt. of India, Ministry of Health and Family Welfare, Vol. II, 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. National Aeronautics and Space Administration, 1966, Standard Procedures for the Microbiological Examination of Space Hardware.
5. Favero (chm.), 1967, Microbiological Sampling of Surfaces, Biological Contamination Control Committee, American Asso. for Contamination Control.

Further Information
For further information please contact your local MICROMASTER Representative.

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MICROMASTER LABORATORIES PRIVATE LIMITED
Unit 38/39, Kalpataru Industrial Estate,
Off G.B. Road, Near 'R-Mall' , Thane (W) – 400607. M.S. INDIA.
Ph: +91-22-25895505, 4760, 4681. Cell: 9320126789.
Email: micromaster@micromasterlab.com
sales@micromasterlab.com

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Prepared By	Checked By	Approved By
01.01.2018	01.01.2018	01.01.2018
Microbiologist	**Head Quality Control**	**Head Quality Assurance**

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