

# PRODUCT SPECIFICATION SHEET



## Fluid Lactose Medium w/ Soya Lecithin and Polysorbate 20 (Twin Pack) (Lactose Medium w/Soya Lecithin and Polysorbate 20 (Twin Pack) (DM1291)

### Intended Use

Fluid Lactose Medium w/ Soya Lecithin and Polysorbate 20 (Twin Pack) (Lactose Medium w/Soya Lecithin and Polysorbate 20 (Twin Pack) (DM1291) is recommended for microbial evaluation of oral hygiene products.

### Product Summary and Explanation

Fluid Lactose Medium w/ Soya Lecithin and polysorbate 20 is recommended for microbial evaluation of oral hygiene products.

### Principles of the Procedure

Fluid Lactose Medium w/ Soya Lecithin and Polysorbate 20 contains beef extract and pancreatic digest of gelatine which provides essential nutrients for bacterial growth and metabolism. Lactose is the source of fermentable carbohydrate and energy. Soya lecithin and polysorbate 20 acts as neutralizers. Soya lecithin neutralizes the quaternary ammonium compounds while polysorbate 20 neutralizes phenolic disinfectants; hexachlorophene and formalin.

### Formula / Liter

Ingredients	Gms / Liter
Part A	--
Beef extract	3.00
Pancreatic digest of gelatin	5.00
Lactose	5.00
Soya lecithin	5.00
Part B	--
Polysorbate 20	40.00
Final pH: 6.9 ± 0.2 at 25°C	
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 18.0 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 viscous liquid
Prepared Medium	Yellow clear to slightly opalescent solution
Reaction of the medium (1.8 w/v Part A + 4.0% w/v Part B)	pH : 6.9 ± 0.2 at 25°C
Gel Strength	Not Applicable

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**Expected Cultural Response** : Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

Sr. No.	Organisms	Results to be achieved	
		Inoculum (CFU)	Growth
1.	<i>Candida albicans</i> ATCC 26790	50-100	good-luxuriant
2.	<i>Enterococcus faecalis</i> ATCC 29212	50-100	good-luxuriant
3.	<i>Escherichia coli</i> ATCC 25922	50-100	good-luxuriant
4.	<i>Pseudomonas aeruginosa</i> ATCC 27853	50-100	good-luxuriant
5.	<i>Staphylococcus aureus</i> ATCC 25923	50-100	good-luxuriant

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

## Test Procedure

Refer appropriate references for specific test procedures.

## Results

Refer appropriate references and test procedures for interpretation of results.

## Storage

Store the sealed bottle containing the dehydrated medium at 2 - 8°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 Lactose Medium w/ Soya Lecithin and Polysorbate 20 (Twin Pack)  
(Lactose Medium w/Soya Lecithin and Polysorbate 20 (Twin Pack))

**Product Code** : DM1291

**Available Pack sizes** : 100gm / 500gm

## References

1. Faverco [chem.], 1967, Microbiological Sampling of Surfaces, Biological Contamination Control Committee, American Assoc. for Contamination Control.

## Further Information

For further information please contact your local MICROMASTER Representative.



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