Technical Information

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

Product Code: DM 2188

Application: - Fluid Lactose Medium w/ Soya Lecithin and Polysorbate 20 is used for microbial evaluation of oral hygiene products.

Composition**

Ingredients	Gms / Litre
Part A	-
HM Peptone B#	3.000
Gelatin peptone	5.000
Lactose	5.000
Soya lecithin	5.000
Part B	-
Polysorbate 20 (Tween 20)	40.000
Final pH (at 25°C)	6.9±0.2

**Formula adjusted, standardized to suit performance parameters

- Equivalent to Beef extract

Principle & Interpretation

Fluid Lactose Medium w/ Soya Lecithin and polysorbate 20 is used for microbial evaluation of oral hygiene products (1).

HM Peptone B and gelatin peptone supply nitrogen and carbon compounds, long chain amino acids and other essential nutrients for bacterial metabolism. Lactose acts as source of fermentable carbohydrate. Soya lecithin neutralizes the quaternary ammonium compounds while polysorbate 20 neutralizes phenolic disinfectants; hexachlorophene and formalin.

Type of specimen

Oral hygiene product samples

Specimen Collection and Handling:

For the samples follow appropriate techniques for handling specimens as per established guidelines (2,3). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :

In Vitro diagnostic Use only. 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 guidleines should be followed while handling specimens. Saftey guidelines may be referred in individual safety data sheets

Limitations :

Some strains may show poor growth due to variable nutritional requirements.

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.

Methodology

Suspend 18.0 grams of dehydrated powder media **Part A** in 960 ml distilled water. Mix thoroughly & heat if necessary to dissolve the medium completely. Add 40 ml of **Part B**. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Shake well before dispense as desired.

Quality Control

Appearance
Part A: Cream to yellow homogeneous free flowing powder
Part B: Colourless viscous liquid
Colour and clarity
Yellow clear to slightly opalescent solution

Reaction
Reaction of the medium (1.8 w/v **Part A** + 4.0% w/v **Part B**) at 25°C. pH : 6.9±0.2

pH Range
6.70-7.10

Cultural Response
DM2188: Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

Organism	Inoculum (CFU)	Growth
Candida albicans ATCC26790	50-100	luxuriant
Enterococcus faecalis ATCC29212 (00087)*	50-100	luxuriant
Escherichia coli ATCC25922 (00013)*	50-100	luxuriant
Pseudomonas aeruginosa ATCC 27853 (00025)*	50-100	luxuriant
Staphylococcus aureus ATCC 25923 (00034)*	50-100	luxuriant

Key: (*) Corresponding WDCM numbers.

Storage and Shelf Life

Dried Media: Store between 10-30°C in a tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle inorder 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. Use before expiry date on the label. Product performance is best if used within stated expiry period.

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

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 clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (4, 5).

Further Reading

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

2. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd 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.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at CDH is true and accurate
- Central Drug House Pvt. Ltd. reserves the right to make changes to specifications and information related to the products at any time.
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