Technical Data

0.1% Peptone w/0.07% Soya lecithin and 4% Tween 20

LQ580CV

Intended use

Recommended as a growth medium for determining efficiency of sanitization of containers, equipment surfaces, water miscible cosmetics etc.

Composition**

Ingredients	g / L
Peptone	1.000
Soya lecithin	0.700
Tween 20	40.000
Final pH (at 25°C)	7.1±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Label the ready to use LQ580CV bottle. Inoculate the medium with the pre-determined volume of the sample or 50-100 CFU of a known culture (as positive control) and incubate at 35-37°C for 24-48 hours.

Principle And Interpretation

0.1% Peptone w/0.07% Soya lecithin and 4% Tween 20 is a minimal nutrient media designed to reduce multiplication of microorganisms (1). Peptone provides carbon, nitrogen compounds, vitamins, minerals and other essential growth nutrients. Soya lecithin neutralizes quaternary ammonium compounds; and Tween 20, a non-ionic surface-active agent, neutralizes substituted phenolics.

Type of specimen

Food samples; Pharmaceutical samples

Specimen Collection and Handling

For Pharmaceutical samples, follow appropriate techniques for sample collection and processing as per guidelines (2).
For food samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards (3).
After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

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 guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations

1. Further recovery from this enriched medium onto selective media is required.
2. Biochemical and serological characterization is required to be carried out from pure isolates for complete identification.

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.

Quality Control

Appearance
Sterile 0.1% Peptone w/0.07% Soya lecithin and 4% Tween 20 in glass bottle.
Colour
Light yellow opalscent solution.
Quantity of medium
100ml of medium in bottles.
pH
6.90- 7.30
Sterility Check
Passes release criteria

Cultural response

Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours. Recovered on Tryptone Soya Agar (M290) and incubated at 35-37°C for 18-24 hours.

Organism	Growth
Escherichia coli ATCC 8739 (00012*)	luxuriant
Staphylococcus aureus subsp. *aureus* ATCC 6538 (00032*)	luxuriant
^*Pseudomonas paraeruginosa* ATCC 9027 (00026*)	luxuriant
** *Bacillus spizizenii* ATCC 6633 (00003*)	luxuriant
Candida albicans ATCC 10231(00054*)	luxuriant
#*Aspergillus brasiliensis* ATCC 16404 (00053*)	luxuriant

Key : (*) Corresponding WDCM numbers.

**Formerly known as *Bacillus subtilis* subsp. *spizizenii*

^ Formerly known as *Pseudomonas aeruginosa*

Formerly known as *Aspergillus niger*

Storage and Shelf Life

Store between 15-30°C. Use before expiry date on the label. Product performance is best if used within stated expiry period.

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

Reference

1.MacFaddin J., 1980, Biochemical Tests for Identification of Medical Bacteria, 2nd ed., Williams and Wilkins, Baltimore.

2.The United States Pharmacopoeia-National Formulatory (USP-NF), 2022.

3.Salfinger Y., and Tortorello M.L. Fifth (Ed.), 2015, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.

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

5.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.

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