

Technical Information

Diluting Fluid A

Product Code: LQ1121

Application:- Recommended as Diluent in testing of pharmaceuticals in accordance with USP.

Composition**

Ingredients	Gms / Litre
Peptone	1.000
Final pH (at 25°C)	7.1±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Diluting Fluid A is recommended as rinsing fluid for membrane filter method used in validation tests for bacteriostasis and fungistasis activity of pharmaceutical articles before carrying out sterility test procedures as per USP (1). After filtering the specified quantity of the test specimen, the membrane is rinsed with measured portions of rinsing or diluting fluid. This rinse is inoculated with known number of test bacteria and fungi as specified in pharmacopoeia. The resultant growth is compared with positive control to determine presence of fungistasis or bacteriostasis activity in test specimen.

Type of specimen

Pharmaceutical samples

Specimen Collection and Handling:

For pharmaceutical samples follow appropriate techniques for handling specimens as per established guidelines (1). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :

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

Limitations :

1. Further biochemical and serological testing must be carried out 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.

Directions

Diluting fluid is used as the diluting or rinsing solution for membrane filter techniques in pharmaceutical products. Measured portions of Diluting fluid A should be used to rinse the membrane after filtration. Inoculate this rinse with 50-100 cfu of test organisms. Simultaneously run a positive control of the same medium. Incubate both the set of medium at the specified time and temperature. Compare the growth obtained for the rinse with that obtained in the positive control after incubation

Quality Control

Appearance

Sterile clear Diluting Fluid A in glass bottle

Colour

Colourless to pale yellow coloured medium

Quantity of medium

300 ml of medium in glass bottle

pH

6.90-7.30

Sterility Check

Passes release criteria.

Growth Promotion Test

In accordance with the harmonized method of USP.

Cultural Response

Cultural characteristics observed after an incubation at 30-35°C for 24-48 hours

Organism	Inoculum (CFU)	Growth
Escherichia coli ATCC 8739 (00012*)	50 -100	good
Escherichia coli ATCC 25922 (00013*)	50 -100	good
Staphylococcus aureus subsp aureus ATCC 25923 (00034*)	50 -100	good
Staphylococcus aureus subsp aureus ATCC 6538 (00032*)	50 -100	good
**Bacillus spizizenii ATCC 6633 (00003*)	50 -100	good
^Pseudomonas paraaeruginosa ATCC 9027 (00026*)	50 -100	good
Candida albicans ATCC 10231 (00054*)	50 -100	good
#Aspergillus brasiliensis ATCC 16404 (00053*)	50 -100	good
Clostridium sporogenes ATCC 19404	50 -100	good

Key : (*) Corresponding WDCM numbers,
^ Formerly known as Pseudomonas aeruginosa ** Formerly known as Bacillus subtilis subsp. Spizizenii
Formerly known as Aspergillus niger

Storage and Shelf Life

On receipt 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 (2,3).

Further Reading

1. The United States Pharmacopoeia-National Formulary (USP-NF), 2022.
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
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- Do not use the products if it fails to meet specifications for identity and performance parameters.