



Diluting Fluid K

LQ122CSS

Intended Use:

Used as diluent in testing of pharmaceuticals in accordance with USP.

Composition**

Ingredients	Gms / Litre
Peptone	5.000
HM peptone B #	3.000
Polysorbate 80 (Tween 80)	10.000
Final pH (at 25°C)	6.9±0.2

**Formula adjusted, standardized to suit performance parameters

Equivalent to Beef extract

Directions

Label the ready to use LQ122CSS bottle w/ screw cap with septum.. Inoculate 50-100 cfu sample and Incubate at specified temperature and time.

Principle And Interpretation

Diluting Fluid K 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 sample

Specimen Collection and Handling:

For pharmaceutical sample 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 :

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. Freshly prepared medium plates must be used or it may result in erroneous results.
2. Use of this method is appropriate only when test samples are clear.

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 clear Diluting Fluid K in bottle.

Colour

Light yellow coloured medium

Quantity of medium

100ml of medium in bottle

Sterility test

Passes release criteria

pH

6.70-7.10

Cultural Response

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

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

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).

Reference

1. The United States Pharmacopoeia, 2022, The United States Pharmacopoeial Convention. Rockville, MD.
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 Clinical Microbiology, 11th Edition. Vol. 1.

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