

## Diluting Fluid D

### Intended Use

Diluting Fluid D is used as a diluent in testing of pharmaceuticals in accordance with USP.

### Summary and Principle

Diluting Fluid D 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. 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.

### Formula\*

Ingredients	g/L
Peptic Digest of Animal Tissue	1.0
Polysorbate 80	1.0
Final pH (at 25°C)	7.1 ± 0.2

\*Adjusted to suit performance parameters.

### Directions

1. Bring the Diluting Fluid D vial to the room temperature 22°C-30°C.
2. Use Diluting Fluid D as per required application.

### Quality Control

**Appearance:** Colourless, clear solution without any precipitate.

**Cultural Response:** Cultural response is studied by checking recovery on Soyabean Casein Digest Agar, (incubated at 30°C-35°C for ≤3 days for bacteria and ≤5 days for fungi), after 2 hours of incubation at 20°C-25°C.

Organism (ATCC)	% Survival after 2 hours (Stored at 20°C-25°C)
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> (6538)	≥100%
<i>Pseudomonas aeruginosa</i> (9027)	≥100%
<i>Bacillus spizizenii</i> (6633)	≥100%
<i>Candida albicans</i> 3147 (10231)	≥100%

**Note:** Inoculum cfu is 100-1000 cfu.

### Storage and Stability

1. Store the ready to use Diluting Fluid D at 15°C-25°C in a cool, dry place away from light.
2. Stability of the kit is as per expiry date mentioned on the label.

### Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

### References

1. The United States Pharmacopoeia / National Formulary, USP34 / NF29, 2011, Asian Edition, US Pharmacopeial convention Inc., Rockville, MD. Indian Pharmacopoeia 2010.
2. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

**Product Presentation:****Cat. No.**

203040220100

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**Product Description**

Bottle Media

Bottle Media

**Pack Size**

100 mL

100 mL

**Disclaimer**

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.

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