# Maximum Recovery Diluent

Solution used as an isotonic diluent for microorganisms optimal recovery.

## • CONTENTS (Liter)

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|---|---|
| Peptone | 1.0 g |
| Sodium Chloride | 8.5 g |

Final pH = 7.0 ± 0.2 at 25°C

## • PROCEDURE

Suspend 9.5 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilized by autoclave at 121˚C for 15 minutes. Cool to 45 - 50˚C in water bath. Mix well. Pour into tubes.

## • INTERPRETATION

Maximum Recovery Diluent is a solution used as an isotonic diluent for microorganisms optimal recovery. Peptone provides nitrogen, carbon, vitamin and minerals. Sodium chloride maintains the osmotic balance.

## • TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at room temperature for zero to 30 minutes and then subculture onto appropriate medium. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

Dehydrated medium
Appearance: free-flowing, homogeneous
Color: off white
Prepared medium
Appearance: clear
Color: colorless
Incubation conditions: room temperature / zero to 30 minutes

| Microorganism | ATCC | Inoculum CFU | Recovery after 30 minutes |
|---|---|---|---|
| *Escherichia coli* | 25922 | 50-100 | no significant reduction |
| *Staphylococcus aureus* | 25923 | 50-100 | no significant reduction |

## • STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

## • REFERENCES


1. Straker R. P. and Stokes J. L. (1957) Appl. Microbiol. 5. 21-25.
2. Patterson J. W. and Cassells J. A. (1963) J. Appl. Bact. 26. 493-497.
3. ISO/DIS 6649. Meat and Meat Products-Detection and Enumeration of Clostridium perfringens.


## • PACKAGE

| | |
|---|---|
| Cat No : MB-M1077<br>Maximum Recovery Diluent | 500 G |

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