



## Product Data Sheet

### MAXIMUM RECOVERY DILUENT

Product No. GB-DCM-00421-1A

### INTENDED USE

A protective and isotonic diluent used for maximal recovery of microorganisms.

### PRODUCT SUMMARY

Maximum Recovery Diluent is formulated as recommended by ISO Committee for use as an isotonic diluent. Standard methods for the examination of foodstuffs require sample dilution to be carried out accurately to estimate the number of microorganisms.

### Product Specifications

Ingredients	Gms / Ltr
Peptone	10.000
Sodium chloride	8.500

### PRINCIPLE

Maximum Recovery Diluent combines protective effect of Peptone with the osmotic balance of physiological saline. The low concentration of Peptone helps to maintain the organisms for 1-2 hours of dilution without multiplication. The isotonic property of the diluent ensures the recovery of organisms from various sources, which may be vulnerable in distilled water or aqueous suspensions.

### INSTRUCTION FOR USE

- Dissolve 9.5 grams in 1000 ml purified/distilled water.
- Mix well and dispense into tubes or flasks as desired.
- Heat if necessary to dissolve the medium completely.
- Cool to 45-50°C. Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

### QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : White to pale yellow homogeneous free flowing powder.

Appearance of prepared medium : Light yellow coloured clear solution without any precipitate.

pH (at 25°C) : 7.0± 0.2



Microorganism	ATCC	Inoculum (CFU/ml)	Growth (after 30 minutes)	Incubation Temperature	Incubation Period
Escherichia coli	25922	50-100	No change in numbers	35-37°C	18-24 Hours
Staphylococcus aureus	25923	50-100	No change in numbers	35-37°C	18-24 Hours

### STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

### DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

**This product is for research use only.**