

# TM 1068 – PHOSPHATE BUFFERED SALINE, pH 7.2

### **INTENDED USE**

For preparation of dilution and controls.

### **PRODUCT SUMMARY AND EXPLANATION**

Phosphate Buffered Saline is used for preparing dilutions, blanks for the examination of waters, dairy products, foods, utensils and other specimens.

## COMPOSITION

| Ingredients                    | Gms / Ltr |
|--------------------------------|-----------|
| Sodium chloride                | 8.500     |
| Disodium hydrogen phosphate    | 1.910     |
| Potassium dihydrogen phosphate | 0.380     |

### PRINCIPLE

This solution gives a pH of 7.2 and also provides potassium, sodium and phosphate ions.

### **INSTRUCTION FOR USE**

- Dissolve 10.79 grams in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Sterilize by autoclaving at 10 psi pressure (115°C) for 10 minutes.

# QUALITY CONTROL SPECIFICATIONS

| Appearance of Powder          | : White to cream homogeneous free flowing powder.    |
|-------------------------------|--|
| Appearance of prepared medium | : Colourless clear solution without any precipitate. |
| pH (at 25°C)                  | : 7.2 ± 0.2  |
|                               |  |

# INTERPRETATION

Cultural characteristics observed after recovery on Soybean Casein Digest Agar incubation.

| Microorga<br>nism             | ATCC  | Inoculum<br>(CFU/ml) | Recovery<br>within 2<br>hours of<br>incubation | Recovery<br>within 4<br>hours of<br>incubation | Recovery<br>within 8<br>hours of<br>incubation | Recovery<br>within 24<br>hours of<br>incubation        | Incubation<br>Temperature | Incubation<br>Period |
|-------------------------------|-------|----------------------|--|--|--|--|---------------------------|----------------------|
| Escherchia<br>coli            | 25922 | 50-100               | No decrease<br>in colony<br>count              | No decrease<br>in colony<br>count              | No decrease<br>in colony<br>count              | No decrease<br>in colony<br>count (stored<br>at 2-8°C) | 35 ± 2°C                  | 18-24 Hours          |
| Salmonella<br>typhimuriu<br>m | 14028 | 50-100               | No decrease<br>in colony<br>count              | No decrease<br>in colony<br>count              | No decrease<br>in colony<br>count              | No decrease<br>in colony<br>count (stored<br>at 2-8°C) | 35 ± 2°C                  | 18-24 Hours          |



# **PRODUCT DATA SHEET**



| Staphyloco<br>ccus<br>aureus  | 25923 | 50-100 | No decrease<br>in colony<br>count | No decrease<br>in colony<br>count | No decrease<br>in colony<br>count | No decrease<br>in colony<br>count (stored<br>at 2-8°C) | 35 ± 2°C | 18-24 Hours |
|-------------------------------|-------|--------|-----------------------------------|-----------------------------------|-----------------------------------|--|----------|-------------|
| Pseudomo<br>nas<br>aeruginosa | 27853 | 50-100 | No decrease<br>in colony<br>count | No decrease<br>in colony<br>count | No decrease<br>in colony<br>count | No decrease<br>in colony<br>count (stored<br>at 2-8°C) | 35 ± 2°C | 18-24 Hours |
| Bacillus<br>subtilis          | 6633  | 50-100 | No decrease<br>in colony<br>count | No decrease<br>in colony<br>count | No decrease<br>in colony<br>count | No decrease<br>in colony<br>count (stored<br>at 2-8°C) | 35 ± 2°C | 18-24 Hours |

### PACKAGING:

In pack size of 100 gm and 500 gm bottles.

## 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.

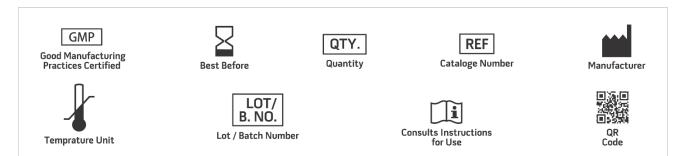
**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

### DISPOSAL

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

#### REFERENCES

1. Clesseri, Greedberg and Eatton (ed). 1988. Standard methods for the examination of water and wastewater, 20th ed. American Public Health Association, Washington, D.C.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices. \*For Lab Use Only Revision: 08 Nov., 2019

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