

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.

Microorganism	ATCC	Inoculum (CFU/ml)	Recovery within 2 hours of incubation	Recovery within 4 hours of incubation	Recovery within 8 hours of incubation	Recovery within 24 hours of incubation	Incubation Temperature	Incubation Period
<i>Escherichia coli</i>	25922	50-100	No decrease in colony count	No decrease in colony count	No decrease in colony count	No decrease in colony count (stored at 2-8°C)	35 ± 2°C	18-24 Hours
<i>Salmonella typhimurium</i>	14028	50-100	No decrease in colony count	No decrease in colony count	No decrease in colony count	No decrease in colony count (stored at 2-8°C)	35 ± 2°C	18-24 Hours



<i>Staphylococcus aureus</i>	25923	50-100	No decrease in colony count	No decrease in colony count	No decrease in colony count	No decrease in colony count (stored at 2-8°C)	35 ± 2°C	18-24 Hours
<i>Pseudomonas aeruginosa</i>	27853	50-100	No decrease in colony count	No decrease in colony count	No decrease in colony count	No decrease in colony count (stored at 2-8°C)	35 ± 2°C	18-24 Hours
<i>Bacillus subtilis</i>	6633	50-100	No decrease in colony count	No decrease in colony count	No decrease in colony count	No decrease in colony count (stored 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.

 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. Lot / Batch Number	 Consults Instructions for Use	 QR Code	

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
Revision: 08 Nov., 2019