

# PRODUCT INFORMATION

## Phosphate Buffer, pH 7.2

Cat. No. P16-108



**ALPHA**<sup>™</sup>  
BIOSCIENCES

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### DESCRIPTION

Phosphate Buffer pH 7.2 is used for preparing dilution blanks. This materials' formulation is specified by the American Public Health Association (APHA) for use in diluting test samples of water, dairy products and foods prior to microbiological examination. The buffer is also referred to as Butterfield's Buffered Phosphate Diluent and can be used with the addition of 5mL magnesium chloride.

#### Formula\* per Liter:

Dihydrogen Potassium Phosphate.....26.22g  
Sodium Carbonate .....7.78g

**Final pH:** 7.2 ± 0.2 at 25°C

*\* Grams per liter may be adjusted or formula supplemented to obtain desired performance.*

### PREPARATION

Mix 34 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring to dissolve completely. Autoclave at 121°C for 15 minutes.

### QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and off-white to white.
2. Visually the prepared medium is clear to slightly hazy with little or no precipitate.

### STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original off-white to white color.