

Preparation of Phosphate Buffer, 0.1M – for pH Experiments

Instructions are written for final buffer volume of 100 mL. If you wish to work with a different volume, please adjust the salts accordingly.

Materials:

- Sodium phosphate monobasic
- Sodium Phosphate dibasic
- DW
- 1 M HCl
- 1 M NaOH

Procedure:

1. Weigh Sodium phosphate monobasic and Sodium phosphate dibasic according to the table below and add to storage glass bottle.

Final pH	4.5	5	6	7
Sodium phosphate monobasic [mg]	592	586.5	615.5	296
Sodium Phosphate dibasic [mg]	3	9	99	476

2. Add 100 ml of distilled water
3. Measure pH using a pH meter. Adjust pH to 5 using 1M HCl and 1M NaOH.