

**Procedure 3:** To prepare 5X PBS.

**Reagents:**

Disodium hydrogen phosphate ( $\text{Na}_2\text{HPO}_4 \cdot 12\text{H}_2\text{O}$ )	57.75g
Sodium Chloride (NaCl)	200g
Potassium dihydrogen phosphate ( $\text{KH}_2\text{PO}_4$ )	5g
Potassium Chloride (KCl)	5g
Distilled Water	5L

**Materials & Equipment:**

Magnetic stirrer and bar  
Balance  
Spatula  
5L Container  
pH Meter

**Procedure:**

1. Weigh out the appropriate weight of each chemical into the 5L container. Record all chemical batch numbers.
2. Bring the volume to 4.8L and mix. Check and adjust pH to pH 7.2 -7.4.
3. Adjust to final volume (5L) and label.