## SOLUTION PREPARATION FOR FROZEN SAMPLE

## **Fixative: 4% Buffered Paraformaldehyde**

- 1. 4 g paraformaldehyde powder + 50mL distilled water (at 60°C for 10 minutes)
- 2. Add NaOH (1-2 drops) warm and stir (at 60°C for 10 minutes)
- 3. Cool and add 50mL 0.2 mL buffer
- 4. Bring pH 7.3-7.4 (HCl drop at a time)

## **PBS (Phosphate Buffered Saline)**

1. 1M Disodium Hydrogen Phosphate Dehydrate (+0.9% NaCl)

```
1M = 177.99g/100mL
= 17.799g/100mL
0.1M = 17.799g/100mL x 1/10
= 17.799g/1000mL
So for 1L =17.8g
```

2. 1M Sodium Dihydrogen phosphor dihydrate (+0.9% NaCl)

```
1M = 156.01g/1000mL
= 15.6g/100mL
0.1M = 15.610g/100mL x 1/10
= 15.610g/1000mL
So for 1L =16.6g
```

0.9% NaCl

0.9g NaCl + 100mL distilled water

```
If 1000mL = (0.9g \times 1000mL)/100mL
= 9g \text{ NaCl}
```

To make PBS: Add a solution 2 into solution 1 (pH7.2). Then add the acidic solution into the basic solution. For 1L solution 1, add 300mL solution 2. Adding the solution 2 little by little until the pH increases to pH7.2-7.4.