

Preparation of 0.1M potassium phosphate buffer at 25°C

Desired pH	Volume of 1M K ₂ HPO ₄ (mL)	Volume of 1M KH ₂ PO ₄ (mL)
5.8	8.5	91.5
6.0	13.2	86.8
6.2	19.2	80.8
6.4	27.8	72.2
6.6	38.1	61.9
6.8	49.7	50.3
7.0	61.5	38.5
7.2	71.7	28.3
7.4	80.2	19.8
7.6	86.6	13.4
7.8	90.8	9.2
8.0	94.0	6.0

Dilute the combined 1M stock solution to 1 litre with distilled H₂O

Preparation of 0.1M sodium phosphate buffer at 25°C

Desired pH	Volume of 1M Na ₂ HPO ₄ (mL)	Volume of 1M NaH ₂ PO ₄ (mL)
5.8	7.9	92.1
6.0	12.0	88.0
6.2	17.8	82.2
6.4	25.5	74.5
6.6	35.2	64.8
6.8	46.3	53.7
7.0	57.7	42.3
7.2	68.4	31.6
7.4	77.4	22.6
7.6	84.5	15.5
7.8	89.6	10.4
8.0	93.2	6.8