NBF Prep Worksheet (1 L)

Goal: prepare ~4% formaldehyde (10% NBF) from 37% stock.

C1V1 = C2V2.

C1=37, C2=4, V2=1000 mL -> V1 = (4/37)*1000 ~ 108 mL formaldehyde stock.

Add phosphate buffer salts to pH ~7.0–7.2; bring to volume with distilled water.

Record: date, operator, lot numbers (formaldehyde, buffer), final pH, label container.

Safety: work in hood; PPE; secondary containment; spill kit.

Dilution Practice

1) How much 37% stock for 500 mL of 10% NBF? V1 ~ 54 mL.

2) If final pH reads 6.6: adjust buffer, verify meter, recheck after mixing.

3) List three QC items to log for each batch.