

Recipes

10xPBS

80.0 g.	NaCl (137 mM)
2.0 g.	KCl (27 mM)
2.0 g.	KH ₂ PO ₄ (43 mM)
11.5 g.	Na ₂ HPO ₄ 7H ₂ O (14 mM)

Dissolve one liter of ddH₂O

pH to 7.3

Filter sterilize through .22 micron filter.

1xPBS

Dilute 10xPBS 1:9 in sterile water.

Filter sterilize through .22 micron filter.

10x RBC Lysis Buffer

90 g.	NH ₄ Cl (0.155M)
10 g.	KHCO ₃ (0.01M)
370 mg.	EDTA (0.1 mM)

Dissolve one liter of ddH₂O

Filter sterilize through .22 micron filter.

4% Paraformaldehyde

Dissolve 4 g. of paraformaldehyde in 90 ml. of H₂O

pH 10 to dissolve

Bring back down to pH 7

add 10 ml. 10x PBS (for a final concentration of 4 g. in 100 ml. of 1x PBS)

Filter sterilize through a .22 micron filter.

1% Paraformaldehyde

Dilute 4% paraformaldehyde 1:3 with 1x PBS

Probably don't need to filter.

0.4% Trypan Blue

Dissolve 0.4 g. of paraformaldehyde in 100 ml. of H₂O

Filter through a .44 micron filter.

4% Paraformaldehyde in 1x PBS (100 ml)

Mix 4 g. paraformaldehyde with 80 ml of Milli-Q dH₂O prewarmed to 56° C in a water bath.

Warm solution to 56° C in a water bath, remove, and adjust to approximately pH 11 with NaOH (approx. 50µl 1M/100ml) with constant stirring.

Once the solution looks clear, add 10ml 10x PBS and adjust to pH 7.4 with concentrated hydrochloric acid (11.8M) at room temperature.

Adjust the final volume to 100ml with Milli-Q dH₂O.

Filter with a .45 micron bottle top filter and store at 4° C.

Dilute to final concentration with 1x PBS.

10% Paraformaldehyde in 1x PBS (500 ml)

Mix 50g. paraformaldehyde with 350 ml of Milli-Q dH₂O prewarmed to 56° C in a water bath.

Warm solution to 56° C in a water bath, remove, and add 4-6 pellets of NaOH while constantly stirring. The solution should be clear and have a pH of approximately 10.62.

add 50ml 10x PBS and adjust to pH 7.4 with 50-60 drops (approximately 2.5 ml -this varies) of concentrated hydrochloric acid (11.8M) at room temperature.

Adjust the final volume to 500ml with Milli-Q dH₂O.

Filter solution with a 0.45 micron bottle top filter and store at 4° C.

Dilute to final concentration with 1x PBS.

Note: wear a protective mask to avoid inhalation of paraformaldehyde.

10X Annexin V Buffer

87.6 g NaCl

3.72g KCl

2.04g MgCl₂. 6H₂O

2.64g CaCl₂. 2H₂O

Dissolve the above into a final volume of 1000mL

Working solution :

Mix 100ml of the 10X solution Annexin HEPES Buffer, 10 ml 1M HEPES solution (final concentration - 10mM), and FBS if needed, to a final volume of 1000mL with Milli-Q

water. Filter, sterilize and store at 4°C