

10X Running Buffer

250mM Tris, 1.92M Glycine, 1% (w/v) SDS, pH 8.3

- Tris base: 30.30g
- Glycine: 144.10g
- SDS: 10.00g
- Water: 1L

1X Trans-Blot Turbo Transfer Buffer

- 5X Trans-Blot Turbo Transfer Buffer: 200mL
- Absolute ethanol: 200mL
- Water: 600mL

5X Tris Buffered Saline (TBS)

100mM Tris, 750mM NaCl, pH 7.6

- Tris base: 12g
- NaCl: 44g

Dissolve in 500mL water, adjust to pH 7.6 with HCl. Top up to 1L with water.

Alternatively,

- Tris-HCl: 12g
- Tris base: 2.8g
- NaCl: 44g

Dissolve in 500mL water. pH should already be at 7.6. If not, adjust with either HCl or NaOH, depending on whether too acidic or alkaline. Top up to 1L with water.

1X TBS with Tween[®] 20 (TBST) Wash Buffer

20mM Tris, 150mM NaCl, 0.1% (w/v) Tween[®] 20, pH 7.5

- 5X TBS: 200mL
- Water: 800mL
- Tween[®] 20: 1mL

Blocking buffer/Secondary antibody buffer

5% (w/v) skim milk, 20mM Tris, 150mM NaCl, 0.1% (w/v) Tween[®] 20

- Skim milk: 5g
- TBST: 100mL

Primary antibody buffer

5% (w/v) BSA, 20mM Tris, 150mM NaCl, 0.1% (w/v) Tween[®] 20, 0.05% (w/v) NaN₃

- BSA: 5g
- TBST: 95mL
- 1% (w/v) NaN₃: 5mL

Note: Primary antibodies diluted in the buffer reusable for months when stored at 4°C. Discard when signal degradation occurs due to depletion of antibodies in the solution.