

General Solutions

NOTE: For a listing of many reagents required to prepare the following solutions, please browse our Prepared Buffers and other Standard Laboratory Chemicals on our website, www.scbt.com.

Blotto A (for general use)

- **1x TBS** ([sc-3715](#)), 5% milk, 0.05% **Tween-20** ([sc-29113](#)). Available pre-made ([sc-2333](#)).

Blotto B (or use with anti-phosphotyrosine antibodies)

- **1x TBS** ([sc-3715](#)), 1% milk, 1% blocking reagent, 0.05% **Tween-20** ([sc-29113](#)).

NOTE: In some cases, milk may be left out entirely, but this will result in somewhat higher backgrounds.

- Available pre-made ([sc-2335](#)).
- For all phospho-specific antibodies: Add 0.01% (v/v) of each **Phosphatase Inhibitor Cocktail A and B** ([sc-45044](#) and [sc-45045](#)) to inhibit phosphatase activity.

Diaminobenzidine Tetrahydrochloride (DAB)

- Dissolve 5 mg **DAB** ([sc-24982](#)) in 100 ml 100 mM **Tris-HCl, pH 7.6** ([sc-216106](#)), and add 0.1 ml 0.3% **hydrogen peroxide** ([sc-203336](#)).
- Prepare fresh DAB solution daily.

Electrophoresis Sample Buffer (2X)

- 100 mM **2-(N-Morpholino)-ethanesulfonic acid (MES)** ([sc-216094](#)), 10 mM **Na EDTA** ([sc-29092](#)), **15% glycerol** ([sc-29095](#)), **1.5% SDS** ([sc-24950](#)), **0.3% Triton X-100** ([sc-29112](#)), 100 mM **TCEP-HCl** ([sc-203290](#)), 7.5 mM **DTT** ([sc-29089](#)), **0.0025% Bromophenol Blue** ([sc-24971](#)).
- Available pre-made ([sc-24945](#)).

Phosphate Buffered Saline (1x PBS)

- 9.1 mM **dibasic sodium phosphate** ([sc-203277](#)), 1.7 mM **monobasic sodium phosphate** ([sc-301829](#)) and 150 mM **NaCl** ([sc-203274](#)).
- Adjust pH to 7.4 with **NaOH** ([sc-301824](#)).
- Available pre-made in liquid ([sc-24946](#)) and powder ([sc-24947](#)) forms.

RIPA Buffer

- **1x TBS** ([sc-362185](#)), 1% Nonidet P-40 or **Igepal CA-630** ([sc-280818](#)), 0.5% sodium deoxycholate, **0.1% SDS** ([sc-24950](#)).
- This may be made in large volumes. Add inhibitors at time of use from the following stock solutions:
 - 10 mg/ml **PMSF** ([sc-3597](#)) in isopropanol (add at 10 µl/ml RIPA)
 - **Aprotinin** ([sc-3595](#)) (add at 50 KIU/ml RIPA)
 - 100 mM **sodium orthovanadate** ([sc-3540](#)) in frozen aliquots (add at 10 µl/ml RIPA)
- Available pre-made ([sc-24948](#)).

Subbing Solution

- **0.3% (w/v) gelatin** ([sc-218567](#)), 0.05% chromium potassium sulfate in distilled H₂O.

Tris Buffered Saline (1x TBS)

- 10 mM **Tris-HCl, pH 7.4** ([sc-301950](#)); 150 mM **NaCl** ([sc-203274](#)).
- Available pre-made in liquid ([sc-24951](#)) form.