**SDS-PAGE & Western Blot Solutions**

**10% SDS**
Dissolve 10g sodium dodecyl sulfate (SDS) into 100 mL DI water (wear mask)

**20% SDS**
Dissolve 20g SDS into 80 mL DI water, then raise volume to 100 mL total with water.

**10x Running Buffer (Tris/Glycine/SDS)**
90.9g Trizma base (0.25M)
432g Glycine (1.92M)
30g SDS (1%)
Add 2.55L DI water (final volume 3L)

**1x Running Buffer (Tris/Glycine/SDS)**
25 mM Tris
192 mM Glycine
0.1% SDS
1 part 10x Running Buffer + 9 Parts DI water

**10x PBS Buffer**
80g NaCl
2.0g KCl
14.4g Na₂HPO₄
2.4g KH₂PO₄
DI water to 1L (pH 7.4 adjust)

**1x PBS Buffer**
1 part 10x PBS and 9 parts DI water

**10x TBS Buffer**
87.7g NaCl (1.5M)
60.6g Tris (Trizma)
Dissolve in 800 mL DI water
pH to 7.6 with 1M HCl
DI water to 1L

**1x TBS Buffer**
1 part 10x TBS and 9 parts DI water

**Thorner Cracking Buffer**
8 M urea (4.8g urea)
5% SDS (2.5 mL of 20% SDS)
50 mM Tris-HCl pH 6.8 (0.5 mL of 1M Tris-HCl pH 6.8)
3.4 mL Water (total volume 10 mL)
(BME to 5%; Bromophenol Blue 1mg/mL also after protein determination assay)

**Blocking Buffer**
5% nonfat dried milk (e.g. 5g in 100 mL total volume)
1x PBS or TBS buffer