QUICK REFERENCE

novex® by life technologies™

Novex® Tris-Glycine Gels

Pub. Part No. IM-6000 MAN0003681 Rev. Date 27 June 2011

Instructions are provided below for electrophoresis of Novex® Tris-Glycine Gels using the XCell *SureLock*® Mini-Cell. For details, refer to the *Novex® Technical Guide* available at www.invitrogen.com/manuals or contact Technical Support.

Denaturing Electrophoresis

Prepare Samples

Reagent	Reduced Sample	Non-reduced Sample
Sample	x µL	x µL
Tris-Glycine SDS Sample Buffer (2X)	5 µL	5 µL
NuPAGE® Reducing Agent (10X)	1 µL	--
Deionized Water	to 4 µL	to 5 µL
Total Volume	10 µL	10 µL

Heat samples at 85˚C for 2 minutes.

Prepare 1X Buffer

Add 100 mL 10X Novex® Tris-Glycine SDS Running Buffer to 900 mL deionized water to prepare 1X Tris-Glycine SDS Running Buffer.

Load Sample

Load the appropriate concentration of your protein sample on the gel.

Load Buffer

Fill the Upper Buffer Chamber with 200 mL and the Lower Buffer Chamber with 600 mL of 1X Tris-Glycine SDS Running Buffer.

Run Conditions

Voltage:	125 V constant
Run Time:	90 minutes (dependent on gel percentage)
Expected Current:	30–40 mA/gel (start); 8–12 mA/gel (end)

Intended Use: For research use only. Not for human or animal therapeutic or diagnostic use.

life technologies™

Novex® Tris-Glycine Gels

Non-Denaturing (Native) Electrophoresis

Prepare Samples

Reagent	Sample
Sample	x µL
Tris-Glycine Native Sample Buffer (2X)	5 µL
Deionized Water	to 5 µL
Total Volume	10 µL

Do not heat samples for native electrophoresis.

Prepare 1X Buffer

Add 100 mL 10X Tris-Glycine Native Running Buffer to 900 mL deionized water to prepare 1X Tris-Glycine Native Running Buffer.

Load Sample

Load the appropriate concentration of your protein sample on the gel.

Load Buffer

Fill the Upper Buffer Chamber with 200 mL and the Lower Buffer Chamber with 600 mL of 1X Tris-Glycine Native Running Buffer.

Run Conditions

Voltage:	125 V constant
Run Time:	1–12 hours
Expected Current:	6–12 mA/gel (start); 3–6 mA/gel (end)

Blot Gel

For blotting denaturing and native gels, use 1X Tris-Glycine Transfer Buffer with 20% methanol. Perform blotting at 25 V constant for 1–2 hours using the XCell II™ Blot Module. The expected start current is 100 mA.