

Novex[®] Tris-Glycine Gels

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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 μ L	x μ L
	Tris-Glycine SDS Sample Buffer (2X)	5 μ L	5 μ L
	NuPAGE [®] Reducing Agent (10X)	1 μ L	--
	<u>Deionized Water</u>	<u>to 4 μL</u>	<u>to 5 μL</u>
	Total Volume	10 μ L	10 μ L

Heat samples at 85°C for 2 minutes.

Prepare 1X Buffer Add 100 mL 10X Novex[®] Tris-Glycine SDS Running Buffer to 900 mL de-ionized 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.

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.

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