QUICK REFERENCE

novex® by life technologies™

Novex® Tricine Gels

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

Prepare Samples

Reagent	Reduced Sample	Non-reduced Sample
Sample	x µL	x µL
Tricine 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® Tricine SDS Running Buffer to 900 mL deionized water to prepare 1X Tricine 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 Tricine SDS Running Buffer.

Run Conditions

Voltage:	125 V constant
Run Time:	90 minutes (dependent on gel percentage)
Expected Current:	80 mA/gel (start); 40 mA/gel (end)

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Blotting Conditions

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

Alternate Transfer Buffers

The Tris-Glycine Transfer Buffer interferes with protein sequencing. If you are performing protein sequencing, use 1X NuPAGE® Transfer Buffer or 0.5X TBE Transfer Buffer for blotting.

The NuPAGE® Transfer Buffer protects against modification of the amino acid side chains and is compatible with N-terminal protein sequencing using Edman degradation.