QUICK REFERENCE

novex® by life technologies™

NuPAGE® Bis-Tris Mini Gels

Pub. Part No. IM-8042 MAN0003679 Rev. Date 27 June 2011

See reverse for NuPAGE® Tris-Acetate Gel protocol

Instructions for electrophoresis using the XCell *SureLock*® Mini-Cell are described below. For details, refer to the *NuPAGE® Technical Guide* available at www.invitrogen.com/manuals.

Prepare Samples

Reagent	Reduced Sample	Non-reduced Sample
Sample	x µL	x µL
NuPAGE® LDS Sample Buffer (4X)	2.5 µL	2.5 µL
NuPAGE® Reducing Agent (10X)	1 µL	--
Deionized Water	to 6.5 µL	to 7.5 µL
Total Volume	10 µL	10 µL

Heat samples at 70˚C for 10 minutes.

Prepare 1X Buffer

Add 50 mL 20X NuPAGE® MES or MOPS SDS Running Buffer to 950 mL deionized water to prepare 1X SDS Running Buffer.

Load Sample

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

Load Buffer

Fill the Upper (200 mL) and Lower (600 mL) Buffer Chambers with the appropriate 1X Running Buffer. **For reduced samples**, use 200 mL 1X Running Buffer with 500 µL NuPAGE® Antioxidant in the Upper Buffer Chamber.

Run Conditions

Voltage:	200 V constant
Run Time:	35 minutes (MES Buffer), 50 minutes (MOPS Buffer)
Expected Current:	100–125 mA/gel (start); 60–80 mA/gel (end)

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

life technologies™

NuPAGE® Tris-Acetate Mini Gels

See reverse for NuPAGE® Bis-Tris Gel protocol

Prepare Samples

Reagent	Denaturing Sample*	Native Sample
Sample	x µL	x µL
NuPAGE® LDS Sample Buffer (4X)	2.5 µL	--
Tris-Glycine Native Sample Buffer (2X)	--	5 µL
Deionized Water	to 7.5 µL	to 5 µL
Total Volume	10 µL	10 µL
Samples	Heat samples at 70°C for 10 minutes	**Do not heat**

*For reduced samples, add NuPAGE® Reducing Agent (10X) to 1X.

Prepare 1X Buffer

Denaturing Samples: Add 50 mL 20X NuPAGE® Tris-Acetate SDS Running Buffer to 950 mL deionized water. **Native Samples:** Add 100 mL 10X Tris-Glycine Native Running Buffer to 900 mL deionized water.

Load Sample

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

Load Buffer

Fill the Upper (200 mL) and Lower (600 mL) Buffer Chambers with the appropriate 1X Running Buffer. **For reduced samples**, use 200 mL 1X Running Buffer with 500 µL NuPAGE® Antioxidant in the Upper Buffer Chamber.

Run Conditions

Voltage:	150 V constant
Run Time:	1 hour (Denaturing gel), 2–3 hours (Native gel)
Expected Current:	40–55 mA/gel (start); 25–40 mA/gel (end) for denaturing gel 18 mA/gel (start); 7 mA/gel (end) for native gel