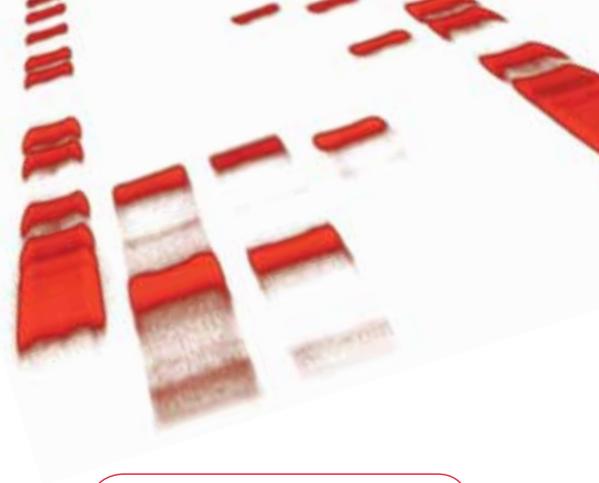


DRAFT



High-performance, high-quality NuPAGE® Novex® precast gels

Clear, reliable, and consistent results every time

With NuPAGE® Novex® precast protein gels, you'll experience:

- Superior protein band resolution and stability
- Faster sample run times
- Longer product shelf life

SPECIAL OFFER:

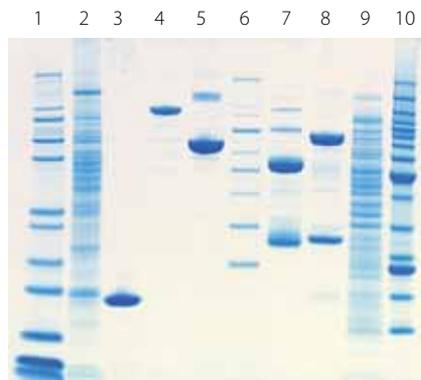
Buy 5 boxes of NuPAGE® Novex® Bis-Tris gels and get an XCell SureLock™ Mini-Cell FREE. Contact your local Account Manager for details.

The NuPAGE® Novex® precast gel system is a revolutionary high-performance polyacrylamide gel system. Gels are available in both Bis-Tris and Tris-acetate formulations and in a variety of acrylamide percentages, so you're sure to find one that meets your electrophoresis needs (Figure 1). Regardless of the gel chemistry or percentage, the unique NuPAGE® Novex® gel formulations eliminate the "smiles" and poor resolution associated with other gel types. The neutral-pH gel chemistry and buffer system avoid chemical sample modifications that can occur in alkaline environments. You'll produce reliable separation results every time. In addition, proteins transfer from NuPAGE® Novex® gels more efficiently, leading to more sample on your membrane for higher detection signals during western analysis.

simultaneously run up to four midi gels. Each midi gel can run up to 26 samples, allowing electrophoresis of over 100 samples at a time. With a Midi Gel Adapter, NuPAGE® Novex® Midi Gels can be run in a Bio-Rad Criterion™ Cell.

Available in mini and midi formats

NuPAGE® Novex® Bis-Tris and Tris-Acetate Gels are available in the 8 × 8 cm mini gel format and a larger 8 × 13 cm midi size for higher throughput. Run up to two mini gels at a time in the XCell SureLock™ Mini-Cell. Use the XCell4 SureLock™ Midi-Cell to



NuPAGE® Novex® 4-12% Bis-Tris gel

Figure 1—NuPAGE® gels deliver excellent separation of protein bands. Various protein samples were run on a NuPAGE® Novex® 4-12% Bis-Tris gel in NuPAGE® MES SDS running buffer. Lane 1: 10 µl Mark12™ Unstained Standard; lane 2: 10 µg rat liver lysate; lane 3: 6 µg lysozyme; lane 4: 6 µg β-galactosidase; lane 5: 6 µg BSA; lane 6: 10 µl MagicMark™ XP Western Protein Standard; lane 7: 6 µg h-IgG; lane 8: 6 µg h-IgM; lane 9: 10 µg *E.coli* lysate; lane 10: 10 µl BenchMark™ Protein Ladder.

NativePAGE™ for large protein complexes

Reliable analysis of very large protein complexes using a Native Complex Purification and Analysis System

The NativePAGE™ System enables:

- Sensitive, high-resolution separations for >10,000 kDa proteins
- Accurate molecular weight estimation
- Analysis of membrane protein complexes in their native conformations

The Native Complex Purification and Analysis System is a novel set of tools for the analysis of very large protein complexes, membrane protein complexes, and super complexes. Analysis using this system enables functional and structural discovery in the fields of molecular interactions and systems biology.

NativePAGE™ Novex® Bis-Tris Gel System

The NativePAGE™ Novex® Bis-Tris Gel System is a pre-cast polyacrylamide mini gel system that provides a sensitive and high-resolution method for analyzing native membrane protein complexes and native soluble proteins, estimating molecular mass, and assessing the purity of native proteins. It is based on the blue native polyacrylamide gel electrophoresis technique developed by Schäegger and von Jagow.¹⁻³ Use this system to maximize resolution of large proteins (>10,000 kDa), analyze membrane protein complexes in their native conformations, and obtain better resolution than with traditional Tris-glycine native electrophoresis (Figure 2). NativePAGE™ Gels are available in an 8 x 8 cm mini gel format.

References

1. Schäegger, H. and von Jagow, G. (1991) *Anal Biochem* 199: 223–231.
2. Schäegger, H. et al. (1994) *Anal Biochem* 217: 220–230.
3. Schäegger, H. (2001) *Meth Cell Biol* 65: 231–244.

To learn more about the NuPAGE® Novex® precast gel system, contact your local Account Manager at 800.955.6288 today.

NativeMark™ Unstained Protein Standard

The NativeMark™ Unstained Protein Standard is a ready-to-use protein marker that enables accurate molecular weight estimation of proteins using NativePAGE™, Novex® Tris-glycine, and NuPAGE® Novex® Tris-acetate gels. Proteins resolve into distinct bands in the range of ~20–1,200 kDa.

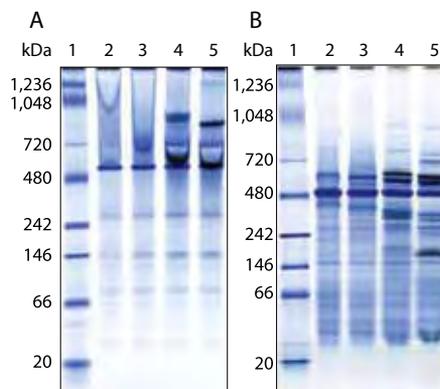


Figure 2—Improved separation with NativePAGE™ gels. Native electrophoresis was performed with Novex® 4–12% Tris-Glycine (A) and NativePAGE™ Novex® 4–16% Gels (B). Both gels were loaded with NativeMark™ standards (lane 1) and 18 mg spinach chloroplast extract solubilized in 0.25%, 0.5%, 1.0%, and 2.0% dodecylmaltoside (lanes 2–5, respectively). Gels were stained with the Colloidal Blue Staining Kit.