

Invitrogen™

## NuPAGE™ 4-12% Bis-Tris Protein Gels, 1.0 mm, 1-well

**Catalog number:** NP0324BOX

**Related applications:** [Protein Gel Electrophoresis](#)

### Description

Invitrogen NuPAGE Bis-Tris protein gels are precast polyacrylamide gels that provide broad molecular weight protein separation with high resolution and sample integrity. These precast gels are ideal for applications where protein integrity is crucial. Unlike traditional Tris-glycine gels, NuPAGE Bis-Tris gels have a neutral pH environment that minimizes protein modifications. Use NuPAGE Bis-Tris gels for preparing proteins for sequencing, mass spectrometry, and any other techniques where protein integrity is important. Also use NuPAGE gels to provide optimal results during day-to-day use.

[Learn more about our NuPAGE Bis-Tris gels >](#)

[View migration charts >](#)

Features of NuPAGE Bis-Tris gels:

- **Better protein integrity**—optimized sample preparation process preserves your proteins
- **Wide ranges of molecular weight separation**—select the right gel and running buffer to get the optimal separation of your proteins
- **Faster run times**—get separation of your proteins in as little as 35 minutes
- **Longer shelf life**—NuPAGE Bis-Tris gels can be stored for at least 12 months at room temperature

### Choose the right NuPAGE Bis-Tris gel for your protein separation

Obtain optimal separation of your proteins by choosing the right combination of gel and running buffer. NuPAGE Bis-Tris protein gels come in four polyacrylamide concentrations: 8%, 10%, 12%, and a 4–12% gradient. Gels come in two sizes: mini (8 cm x 8 cm) or midi (8.7 cm x 13.3 cm) and either 1.0 mm (mini and midi gels) or 1.5 mm (mini gel format only) in thickness. NuPAGE Bis-Tris gels also come in multiple well formats.

NuPAGE Bis-Tris gels are formulated for denaturing gel electrophoresis applications. For optimal sample preparation, use the [NuPAGE LDS Sample Buffer](#) and [NuPAGE Sample Reducing Agent](#). Use [NuPAGE Antioxidant](#) in the running buffer to maintain the reduced state of the proteins during the run and to allow maximum band sharpness. The gels can be run using [NuPAGE MES SDS Running Buffer](#) to better resolve small proteins or [NuPAGE MOPS SDS Running Buffer](#) to resolve medium- to large-size proteins.

For transfer of proteins to a membrane, we recommend using [NuPAGE Transfer Buffer](#) for traditional wet transfer using the [Mini Blot Module](#) or [XCell II Blot Module](#). Alternatively, rapid semi-dry transfer can be done using the [Invitrogen Power Blotter](#) or rapid dry transfer using the [iBlot 2 Gel Transfer Device](#).

### Related links

[Overview of 1D Protein Electrophoresis](#)

|                              |                                                          |
|------------------------------|----------------------------------------------------------|
| Gel Percentage:              | 4-12 %                                                   |
| Wells:                       | 1 well                                                   |
| Gel Type:                    | Bis-Tris Gel                                             |
| Separation Range:            | 15 to 260 kDa (MOPS buffer), 3.5 to 160 kDa (MES buffer) |
| Gel Size:                    | Mini (8 cm x 8 cm)                                       |
| Well Format:                 | 1D Well                                                  |
| Thickness:                   | 1.0 mm                                                   |
| Product Line:                | Novex™, NuPAGE®                                          |
| For Use With<br>(Equipment): | Mini Gel Tank, XCell SureLock™ Mini                      |
| Mode of<br>Separation:       | Molecular Weight                                         |
| Product Size:                | 10 gels (1 box)                                          |
| Quantity:                    | 10 gels                                                  |

|                        |                  |
|------------------------|------------------|
| Sample Loading Volume: | 700 µL           |
| System:                | NuPAGE® Novex®   |
| Shipping Condition:    | Room Temperature |

## Contents & storage

One box contains 10 gels. Store at 4–25°C. Do not freeze. Shelf life is 12 months.