





Publication Part No. LC5801.PPS Publication No. MAN0009622 Rev B.0

 Package contents	Catalog Numbers LC5801	Size: 2 × 250 µL
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 Storage conditions	<ul style="list-style-type: none"> Store at -20°C. Avoid repeated freezing and thawing.
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 Required materials	<ul style="list-style-type: none"> Polyacrylamide gel(s) Electrophoresis apparatus for protein analysis Appropriate sample buffer (when silver staining)
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 Selection guide	Unstained Protein Standards Go online to view related products.
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 Product description	<ul style="list-style-type: none"> Novex® Sharp Unstained Protein Standard allows you to accurately determine molecular weight of proteins using SDS-PAGE electrophoresis. This standard consists of 12 protein bands ranging in molecular weight from 3.5–260 kDa.
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Note: The 3.5 kDa band is only visible on Bolt™ or NuPAGE® gels with MES running buffer or Tricine gels.

- Storage buffer: 65 mM Tris (pH 6.8), 30% glycerol, 2% SDS, 2.5 mM EDTA, 0.0025% Coomassie G-250

- Use with Bolt™ Bis-Tris Plus, NuPAGE® Bis-Tris, Tris-Glycine, or Tricine Gels. Click here to view our online [Protein Gel Selection Guide](#).

 Important guidelines	<ul style="list-style-type: none"> Visualize bands using SimplyBlue™, Coomassie, SYPRO®, or silver staining techniques.
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- DO NOT apply heat or add a reducing agent. Novex® Sharp Unstained Standard is supplied ready-to-use.

 Online resources	Visit our product page for additional information and protocols. For support, visit www.lifetechnologies.com/support .
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For Research Use Only. Not for use in diagnostic procedures.

18 March 2014

Protocol

- Thaw the standard at room temperature.
- Vortex gently to ensure the solution is homogeneous.
- (*Silver staining only*) Dilute the standard 1:10 in 1X Sample Buffer.
- Load the standard on the gel (see table for recommended volumes).

Gel Type	Volume
Mini gel (1.0-mm thick)	5 µL
Mini gel (1.5-mm thick)	7 µL
Midi gel (12+2 well; sample/marker well)	10 µL/5 µL
Midi gel (20 well)	8 µL
Midi gel (26 well)	5 µL

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kDa

 260
160
110
80
60
50
40
30
20
15
10
3.5


5 µL of Novex® Sharp Unstained Protein Standard on a Bolt™ 4–12% Bis-Tris Plus Gel with MES SDS Running Buffer
 Stain: SimplyBlue™ SafeStain.

For support, visit www.lifetechnologies.com/support.