



Publication Part No. IM5677 Publication No. MAN0007919 Rev A.0


 Package contents	Catalog Numbers LC5677	Size: 1 mL
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 Storage conditions	Store at 2°C to 8°C.	
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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	<p>Unstained Protein Standards Go online to view related products.</p>
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 Product description	<ul style="list-style-type: none"> ▪ Mark12™ Unstained Protein Standard allows you to accurately determine protein molecular weight gel over a wide molecular weight range. ▪ This standard consists of 12 protein bands ranging in molecular weight from 2.5–200 kDa. ▪ Storage buffer: Tris-HCl, Glycerol, SDS, Phenol Red, and Coomassie Blue G-250
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 Important guidelines	<ul style="list-style-type: none"> ▪ Use with Bolt™, NuPAGE®, Tris-Glycine, or Tricine gels. Click here to view our online Protein Gel Selection Guide. ▪ Visualize bands using Commassie or silver staining techniques. ▪ DO NOT apply heat or add a reducing agent. Mark12™ Unstained Standard is supplied ready-to-use.
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 Online resources	<p>Visit our product page for additional information and protocols. For support, visit www.lifetechnologies.com/support.</p>
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For Research Use Only. Not for use in diagnostic procedures.

18 March 2014

Protocol

1. Thaw the standard at room temperature.
2. Vortex gently to ensure the solution is homogeneous.
3. (*Silver staining only*) Dilute the standard 1:20 in 1X Sample Buffer.
4. 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 (1.0-mm thick)	10 µL
Midi gel (1.5-mm thick)	15 µL

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kDa

200
116.3
97.4
66.3
55.4

36.5
31

21.5
14.4

6
3.5
2.5



5 µL of Mark12™ Unstained Protein Standard on a Bolt™ 4–12% Bis-Tris Plus Gel with MES SDS Running Buffer

Stain: SimplyBlue™ SafeStain.