

5. Please use a standard 10 µl pipette to load your sample. Please load the sample by inserting the pipette tip vertically into the well. Maximal volume per well is 45 µl.



6. Electrophoresis Condition

Voltage	Starting current	Finished current	Run Time per Gel*
180 V	70 - 100 mA	30 - 50 mA	50 - 55 min

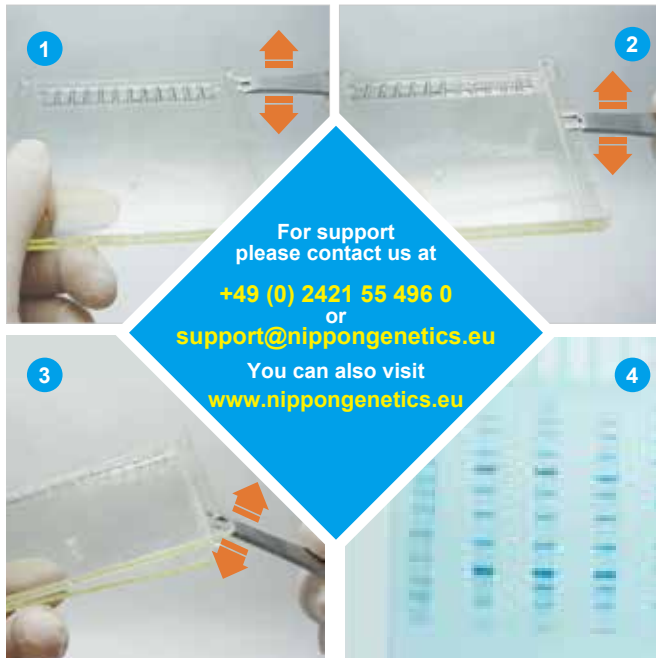
*Running time is dependent on expected protein sizes, gel percentage and power supply used.

7. Compatibility

8 × 10 cm	10 × 10 cm
<ul style="list-style-type: none"> - FastGene® Protein Chamber (NG-002) - Bio-Rad Mini-PROTEAN® II & 3 & Tetra System; - Hoefer SE250 Mighty Small II Mini & SE260 Mighty Small II Deluxe 	<ul style="list-style-type: none"> - LONZA PAGEr™ Minigel Chamber, - Hoefer SE260 Mighty Small II Deluxe, - Life Technologies Novex XCell Surelock® & Bolt™ Mini Gel Tank*

*Extra cushion needed

8. Opening a gel cassette with an FastGene® Opener



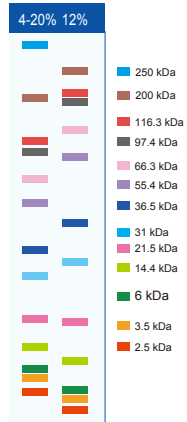
QuickGuide for FastGene® PAGE Gels 10 × 10 cm



NIPPON Genetics EUROPE

Binsfelder Straße 77 | D-52351 Dueren | Germany

1. Choose the appropriate gels for your protein electrophoresis analysis using the charts given below.



Percentage	Separation range
4-20 %	3.5 kDa to 250 kDa
12 %	6 kDa to 200 kDa

2. Preparation of sample:

Reagent	Volume
Protein Sample*	x µl
Deionized H ₂ O	Up to 8 µl
5 × Loading buffer	2 µl
Total volume**	10 µl

*Heat the sample at 100 °C for 10 min (not for native gels).
**Maximal volume per well is 45 µl.

3. Prepare the gel tank and the running buffer. Please use FastGene® MOPS (PG-MOPS10) or MES buffer as a PAGE running buffer. Do not use Tris-Glycine.

Note: The FastGene® MOPS (PG-MOPS10) buffer contains SDS and is therefore not suitable for native PAGE.

MOPS Buffer	
Tris-base	6.06 g
MOPS	10.46 g
EDTA	0.3 g
(SDS)*	(1 g)*
H ₂ O	up to 1000 ml

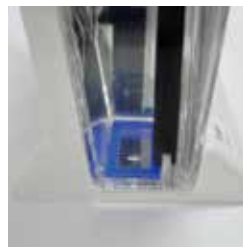
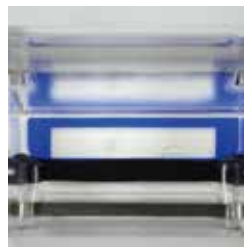
*Not for native gels

MES Buffer	
Tris-base	6.06 g
MES	9.76 g
EDTA	0.3 g
(SDS)*	(1 g)*
H ₂ O	up to 1000 ml

*Not for native gels

4. Remove the tape at the bottom of the gel plate and the comb gently, then insert the gel into the gel running apparatus and add the running buffer.

Bolt™ Mini Gel Tank: Please add the plastic cushion to the gel tank.



NOTE:

1. Check for leakage of inner chamber with running buffer or water.
2. In order to obtain more convenient operation, please upgrade your Bolt® Mini Gel Tank by replacing the current black cam handles on your cassette clamps with new gray cam handles (Thermo Fisher Cat. No. A26732).

