

# Using 10 cm Novex® and NuPAGE® Mini Gels with the Bolt® Mini Gel Tank

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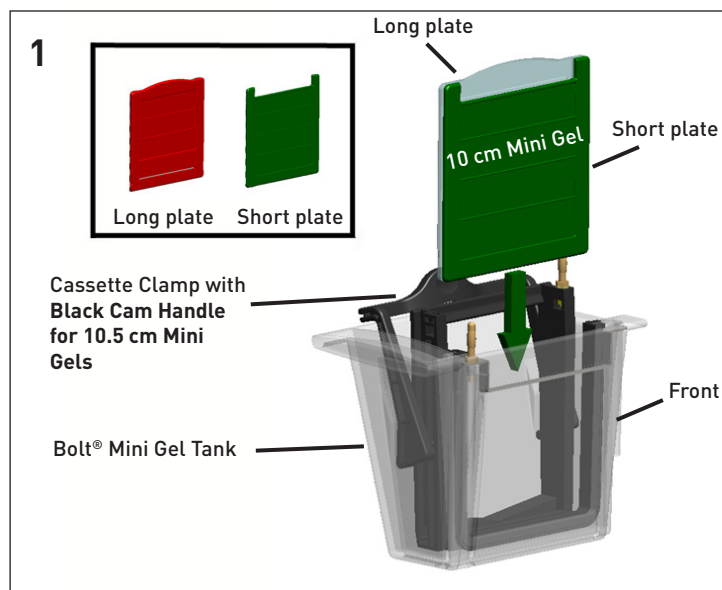
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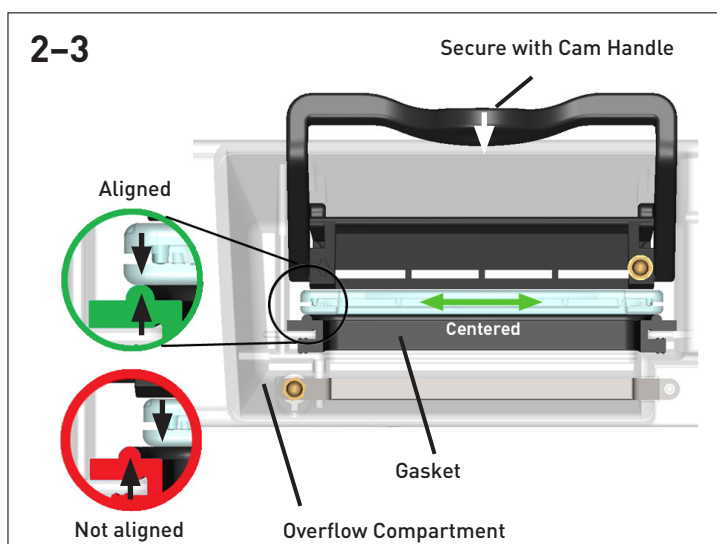
Instructions for using 10 cm Novex® and NuPAGE® Mini Gels with the Bolt® Mini Gel Tank fitted with **black cam handles** for 10.5 cm mini gels are described below.

Samples, running buffers, mini gels, and the Bolt® Mini Gel Tank should be prepared normally as directed in the standard instructions. For detailed protocols, or instructions for changing black cam handles for 10.5 cm mini gels to gray cam handles for 10 cm mini gels refer to the applicable manuals available from [www.lifetechnologies.com/manuals](http://www.lifetechnologies.com/manuals).

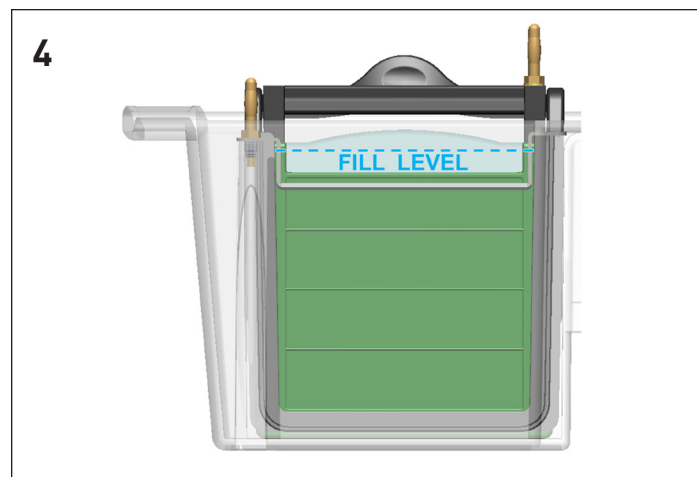
## Procedure



1. Place the cassette into the chamber with the wells facing towards you (short plate facing front).



2. Make sure the gel cassette is centered/aligned, and flush with the bottom of the chamber so a proper seal is formed with the gasket.
3. Hold the gel cassette in its centered position, and secure the gel cassette by pulling the cam handle forward.



4. Fill the Anode and Cathode Chambers with 1X Running Buffer. For reduced samples, use 200 mL 1X Running Buffer with 0.5 mL NuPAGE® or Bolt® Antioxidant in the Cathode Chamber (and Overflow Compartment). Make sure the loading wells are completely filled with buffer (the Overflow Compartment should be nearly full).
5. Load your samples and markers.
6. Perform electrophoresis using the following conditions:

| Gel Type                                        | Voltage (constant) | Run Time    |
|-------------------------------------------------|--------------------|-------------|
| Novex® Tris-Glycine Mini Gel                    | 125 V              | 100 minutes |
| NuPAGE® Bis-Tris Mini Gel (with MES Buffer)     | 200 V              | 30 minutes  |
| NuPAGE® Bis-Tris Mini Gel (with MOPS Buffer)    | 200 V              | 42 minutes  |
| Bolt® Bis-Tris Plus Mini Gel (with MES Buffer)  | 200 V              | 20 minutes  |
| Bolt® Bis-Tris Plus Mini Gel (with MOPS Buffer) | 200 V              | 35 minutes  |
| NuPAGE® Tris-Acetate Mini Gel                   | 150 V              | 50 minutes  |
| Novex® Tricine Mini Gel                         | 125 V              | 65 minutes  |

Run time may vary depending on gel percentage and the power supply used for electrophoresis.

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