Instructions for Using the Trans-Blot Turbo System

1. Assemble the Blotting Sandwich: After gel electrophoresis, open the transfer pack and assemble the components on the cassette in the order shown below. For best results, use the roller to remove any air trapped between the layers.

2. Insert Cassette into Instrument: Place the lid on the cassette and lock by turning the knob clockwise, using the symbols on the lid as a guide. Slide the cassette into either bay. The upper bay is designated as bay A and the lower bay is designated as bay B. If running two cassettes simultaneously, refer to the table below for acceptable transfer pack combinations.

3. Start the Transfer: With the cassette inserted into the instrument, press TURBO and select your gel type. Press A:RUN or B:RUN to begin the transfer. LIST will allow you to select from Bio-Rad’s optimized protocols (see table below) or a user-defined protocol. NEW will allow you to create and run a new protocol.

4. Downstream Processing: At the end of the transfer, RUN COMPLETE will be displayed for the cassette slot.
   - Remove cassette from unit and unlock lid
   - Disassemble blotting sandwich and extract membrane for downstream processing
   **Note:** Clean and inspect the instrument and cassette after each use for damage. Contact Bio-Rad technical support if any damage is noted.

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### Protocol Table

<table>
<thead>
<tr>
<th>Protocol Name</th>
<th>MW, kDa</th>
<th>Time, min</th>
<th>2 Mini Gels or 1 Midi Gel</th>
<th>1 Mini Gel</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDARD SD</td>
<td>Any</td>
<td>30</td>
<td>Up to 1.0 A; 25 V constant</td>
<td></td>
</tr>
<tr>
<td>1.5 MM GEL</td>
<td>Any</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIGH MW</td>
<td>&gt;150</td>
<td>10</td>
<td>2.5 A constant; up to 25 V</td>
<td>1.3 A constant; up to 25 V</td>
</tr>
<tr>
<td>LOW MW</td>
<td>&lt;30</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIXED MW*</td>
<td>5–150</td>
<td>7</td>
<td>N/A</td>
<td>2.5 A constant; up to 25 V</td>
</tr>
<tr>
<td>1 Mini TGX*</td>
<td>5–150</td>
<td>3</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

* Conditions hold if trays are swapped.

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* Also accessed via the TURBO navigation button.

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Key Menu Screens

Refer to the Trans-Blot Turbo Blotting System Instruction Manual for a complete listing of menu screens.

Screen Features

**RUN Screen**

- MINI, MIDI, MP TGX, or USER protocol
- Protocol name
- Program settings
- Star indicates an active run
- Transfer conditions during run (real time)
- Gel format

**EDIT Screen**

- Selection buttons for voltage, current, and time
- Toggle between constant amps and constant volts

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