Storage Conditions

Product  | Storage
--- | ---
RNA HighSens Chips  | Room temperature
RNA ladder  | –20°C
Reagents  | 4°C (protected from light)

Essential Practices

- Aliquot the stock ladder and any prepared ladder to avoid multiple freeze/thaw cycles
- Use heat to denature RNA ladder and samples just before use
- Use RNase-free microcentrifuge tubes, pipet tips, and water
- Always wear gloves when handling reagents and chips
- Handle chips by the edges; do not touch the glass
- Remove chip from packaging only immediately before use
- Avoid sources of dust and contaminants when preparing samples and loading the chip.
- Foreign particles in reagents, samples, and the wells of the chip can interfere with results
- Deep-clean the electrodes if contamination is suspected or if a chip was left in the instrument overnight
- Use of colored or coated (for example, siliconized polypropylene) tubes when preparing kit reagents or samples is not recommended; such tubes may cause artifacts during the separation
- Refer to the instruction manual for more details

Ordering Information

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>700-7101</td>
<td>Experion System, 100–240 V, for RNA and DNA analyses, includes electrophoresis station, priming station, vortex station, software, USB2 cable, instructions (analyses kits sold separately)</td>
</tr>
<tr>
<td>700-7105</td>
<td>Experion RNA HighSens Analysis Kit for 10 Chips, includes 10 RNA HighSens chips, Experion RNA HighSens reagents and supplies for 10 chips</td>
</tr>
<tr>
<td>700-7106</td>
<td>Experion RNA HighSens Analysis Kit for 25 Chips, includes 25 RNA HighSens chips, Experion RNA HighSens reagents and supplies for 25 chips</td>
</tr>
<tr>
<td>700-7107</td>
<td>Experion System, 100–240 V, for RNA and DNA analyses (700-7101), Experion RNA StdSens starter kit (700-7111)</td>
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Experion RNA HighSens Analysis Kit Quick Guide

For complete instructions, refer to the Experion RNA HighSens analysis kit instruction manual. Full manuals are available online at www.bio-rad.com or contact us by phone at 1 800 424 6723 for an electronic copy.

Read the full protocol and essential practices sections if using for the first time.

1. Equilibrate Kit Reagents (SE = sensitivity enhancer, B = loading buffer, G = gel, ST = stain, L = ladder)
   - Equilibrate to room temperature (~15 min)
   - Thaw on ice
   - Briefly vortex and spin down tubes. Keep L on ice

2. Clean the Electrodes
   - 800 µl Experion electrophoresis buffer
   - 2 min
   - Remove EC chips

3. Prepare the Gel (G) and Gel-Stain (GS) Solution
   - 65 µl 1 µl
   - 13,000 x g for 10 min

4. Prepare the Samples and RNA Ladder
   - Use 1.5 ml tube for ladder
   - Note: Fan airflow of denatured, diluted RNA ladder wells, then L on ice and proceed to step 5. DO NOT re-use diluted RNA ladder.

5. Prime the Chip
   - DEPC H2O rinse as in step 2, except rinse L instead of G
   - 1,500 x g for 10 min
   - DEPC H2O rinse
   - 2 min at 70°C
   - GS G SE

6. Load the Prepared Samples and Diluted RNA Ladder Onto the Chip
   - Select B1 on priming station
   - Place chip in station and press Start
   - Remove chip after priming is complete
   - Pipet the chip over and visually inspect the microchannels for trapped air bubbles or incomplete priming

7. Run the RNA HighSens Analysis
   - Select New Run, then the desired Experion RNA HighSens Assay (Eukaryotic, Prokaryotic Total RNA, or Eukaryotic mRNA)
   - Click the Start button on screen
   - Select number of samples to run
   - When the run is complete, remove and discard the used chip

8. Clean the Electrodes
   - DEPC H20 rinse as in step 2, except rinse for 1 min

Note: When the run is complete, remove and discard the used chip.

Select number of samples to run
Click the New Run button on screen
Select number of samples to run
When the run is complete, remove and discard the chip

Prepare the Gel (G) and Gel-Stain (GS) Solution

Prepare the Samples and RNA Ladder

Prime the Chip

Load the Prepared Samples and Diluted RNA Ladder Onto the Chip