Storage Conditions

Product	Storage
RNA HighSens Chips	Room temperature
RNA ladder	-70°C
Rest of 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

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Catalog #	Description	Catalog #	Description
700-7001	Experion System, 100-240 V, for RNA and DNA	700-7111	Experion RNA StdSens Starter Kit
	analyses, includes electrophoresis station, priming	700-7155	Experion RNA HighSens Chips, 10
	station, vortex station, software, USB2 cable,	700-7156	Experion RNA HighSens Reagents and Supplies,
	instructions (analyses kits sold separately)		for 10 chips, includes 1,250 µl RNA gel, 20 µl RNA
700-7105	Experion RNA HighSens Analysis Kit for 10 Chips,		HighSens stain, 20 µl RNA ladder, 900 µl RNA HighSens
	includes 10 RNA HighSens chips, Experion RNA		loading buffer, 100 µl RNA sensitivity enhancer, 2 spin
	HighSens reagents and supplies for 10 chips		filters
700-7106	Experion RNA HighSens Analysis Kit for 25 Chips,	700-7251	Experion Cleaning Chips, 10
	includes 25 RNA HighSens chips, Experion RNA	700-7252	Experion Electrode Cleaner, 250 ml
	HighSens reagents and supplies for 25 chips	700-7253	Experion DEPC-Treated Water, 100 ml
701-7001	Experion System, 100-240 V, for RNA and DNA	700-7254	Experion Spin Filters, 10
	analyses (700-7001), Experion RNA StdSens starter kit (700-7111)	700-7255	Experion RNA Ladder



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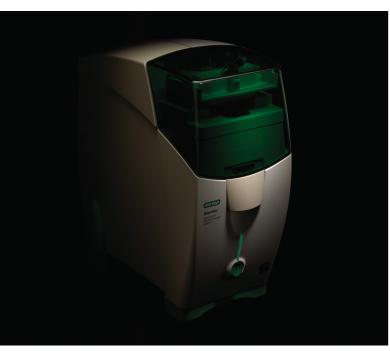






Experion™ RNA HighSens Analysis Kit Quick Guide





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.

Equilibrate Kit Reagents (SE = sensitivity enhancer, B = loading buffer, G = gel, ST = stain, L = ladder)



4

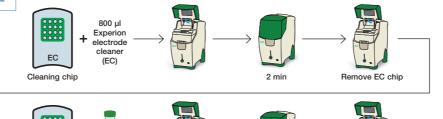


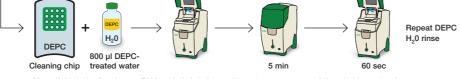




Briefly vortex and spin down tubes. Keep L on ice

Clean the Electrodes



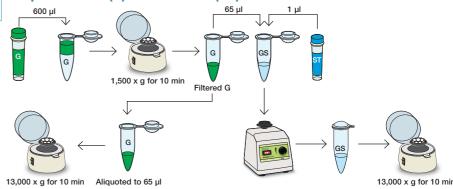


Note: If this is the first time an RNA analysis is being performed on your system, follow the deep-cleaning procedure outlined in the RNA kit manual or software version 3.0 Help section (use search term: electrodes).

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

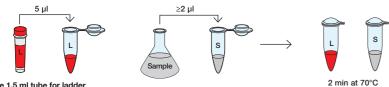
3

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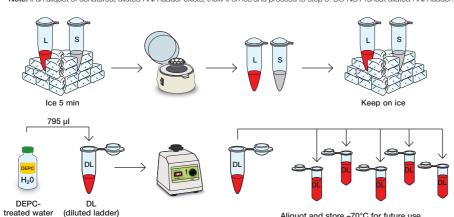


Note: Filtered gel may be stored for up to 1 month at 4°C protected from light. After 1 month, unused gel should be refiltered before it is used again. Prepare fresh GS daily.

Prepare the Samples and RNA Ladder

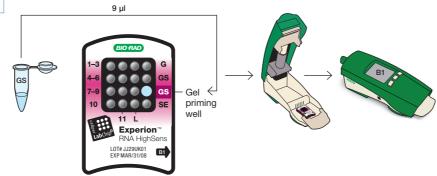


Note: If an aliquot of denatured, diluted RNA ladder exists, thaw it on ice and proceed to step 5. DO NOT reheat diluted RNA ladder.



Aliquot and store -70°C for future use

5



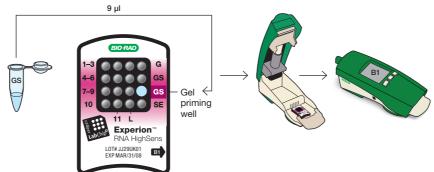
- Select B1 on priming station
- Place chip in station and press Start
- Remove chip after priming is complete
- Flip the chip over and visually inspect the microchannels for trapped air bubbles or incomplete priming

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 onscreen
- Select number of samples to run
- When the run is complete, remove and discard the used chip

Prime the Chip

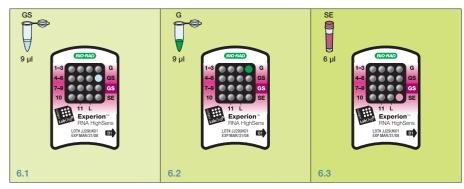


- Add GS to priming well

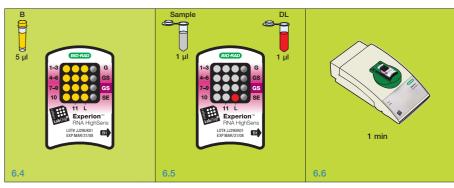
Clean the Electrodes

■ DEPC H₂0 rinse as in step 2, except rinse for 1 min

Load the Prepared Samples and Diluted RNA Ladder Onto the Chip



- Pipet 9 μl gel-stain solution into the second GS well
- Pipet 9 µl filtered gel into well G
- Pipet 6 μl sensitivity enhancer into well **SE**



- Pipet 5 µl loading buffer (yellow cap) into each sample well (1-11) and into well L; do not leave any sample well empty
- Pipet 1 µl denatured, diluted RNA ladder into well L
- Pipet 1 µl denatured sample into each of the 11 sample wells; pipet 1 µl DEPCtreated water into any unused sample wells
- Place the chip in the Experion vortex station and vortex (1 min)
- Run the chip in the Experion electrophoresis station within 5 min of loading