AUTOMATED ELECTROPHORESIS

Experion™ Pro260 Analysis Kit

Quick Guide

1 Temperature Equilibration

Remove the Pro260 stain (**blue cap**), Pro260 sample buffer (**yellow cap**), Pro260 ladder (**red cap**), and 2 tubes of Pro260 gel (**green cap**) from storage. Allow these reagents to warm to room temperature (~15 min). Briefly vortex and then centrifuge the tubes before use to collect the solutions at the bottom of the tubes.

2 Prepare the Gel and Gel-Stain Solution

- To prepare the gel-stain solution, add 20 µl Pro260 stain (**blue cap**) to a tube of Pro260 gel (520 µl; **green cap**); vortex briefly
- Pipet the gel-stain solution and the contents of the other tube of Pro260 gel (520 µl; **green cap**) into separate spin filters; centrifuge at 10,000 x g for 5 min

Note: Unused filtered gel-stain solution and filtered gel may be stored for up to 1 month at 4ºC in the dark. Unused gel should be refiltered after 1 month.

3 Prepare the Sample Buffer

Reducing Conditions

- Add 1 µl 2-mercaptoethanol to 30 µl sample buffer (**yellow cap**) for each chip to be run; prepare fresh solution daily

Nonreducing Conditions

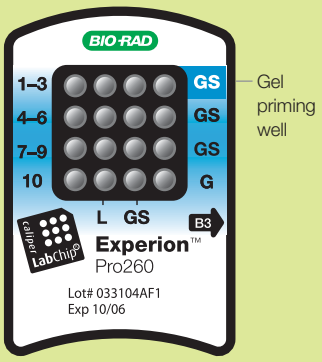
- Add 1 µl deionized water (0.2 µm filtered) to 30 µl sample buffer (**yellow cap**) for each chip to be run. In addition, prepare a tube of sample buffer under reducing conditions as instructed above; the Pro260 ladder always requires a reducing sample buffer

4 Prepare the Samples and Pro260 Ladder

- Add 2 µl sample buffer to 4 µl each sample; vortex
- Add 2 µl sample buffer to 4 µl Pro260 ladder (**red cap**); vortex
- Heat the samples and ladder at 95–100ºC for 3–5 min; centrifuge the samples briefly
- Add 84 µl deionized water (0.2 µm filtered) to samples and ladder; vortex

5 Prime the Chip

- Remove a Pro260 chip from its packaging and place it on the chip platform in the Experion priming station
- Add 12 µl gel-stain solution to the gel priming well
- Close the lid of the priming station, set the pressure to **B**, and set the time to **3**
- Press the **Start** button
- When priming is complete, remove the primed chip from the priming station
- Flip the chip over, and visually inspect the microchannels for trapped air bubbles or incomplete priming



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6 Load the Samples and Pro260 Ladder Into the Chip

- Remove and discard any remaining gel-stain solution from the gel priming well
- Pipet 12 µl filtered gel-stain solution into all 4 wells labeled **GS**
- Pipet 12 µl filtered gel into the well labeled **G**
- Pipet 6 µl diluted protein ladder into the well labeled **L**
- Pipet 6 µl diluted sample into each sample well. Do not leave any sample well empty. If necessary, pipet a sample or ladder replicate into any empty sample wells
- Run the chip in the Experion electrophoresis station within 5 min of loading

7 Run the Pro260 Analysis

- Turn the Experion electrophoresis station on and then launch the Experion software
- Place the chip on the chip platform of the electrophoresis station and close the lid
- Select **New Run**, then **Experion Protein 260** Assay
- Click the **Start** button on the screen to begin the run
- When the run is complete, remove and discard the used chip

8 Clean the Electrodes

- Place a cleaning chip filled with 800 µl deionized water (0.2 µm filtered) into the electrophoresis station
- Close the lid for 60 sec to clean the electrodes, and then open it for 60 sec to allow the electrodes to dry completely
- Remove the cleaning chip

Ordering Information

Catalog #	Description
700-7000	Experion System, 100–120/220–240 V, for protein analysis, includes electrophoresis station, priming station, software, USB2 cable, test chip, instructions (analysis kits sold separately)
700-7101	Experion Pro260 Analysis Kit for 10 Chips
700-7102	Experion Pro260 Analysis Kit for 25 Chips
700-7151	Experion Pro260 Chips, 10
700-7152	Experion Pro260 Reagents and Supplies, for 10 chips
700-7251	Experion Cleaning Chips, 10
700-7254	Experion Spin Filters, 10
163-2091	ReadyPrep™ Proteomics Grade Water, 500 ml
161-0710	2-Mercaptoethanol, 25 ml
700-7256	Experion Pro260 Ladder