

[Cat. No.] **K-7240**

Introduction

ExiProgen™ is BIONEER's protein synthesis instrument, which synthesizes recombinant proteins in a fully automated system. This instrument performs *in vitro* transcription and translation from target DNA and Ni-NTA affinity purification of His-tagged proteins. ExiProgen™ kits are used with the ExiProgen™ operating a pre-programmed protocol. Each ExiProgen™ kit has a separate protocol number. ExiProgen™ Dialysis Kit allows automatic protein dialysis using this instrument.

A. Programmed protocol number in ExiProgen™

Protocol number	No. 913	No. 914
Protocol name	Storage_12	Storage_6
Buffer exchange	700 µl x 24 times	700 µl x 12 times
Cartridge	Cartridge ① and ②	Cartridge ②
Operating time	< 13 hrs 20 min	< 6 hrs 40 min

* **Note:** This product can be applied to protocol numbers 913 and 914. There are differences in the volume of dialysis buffer and duration between the two protocols, so users can select the protocol number according to their need.

Features & Benefits

- Convenience: Buffer exchange possible even at low temperatures using the automatic instrument without an additional cooling system.
- Efficiency: Exchange with a desired buffer using only a small amount.
- Fully automated system: All processes are automated after loading the samples.
- Parallel processing: Buffers up to sixteen different proteins can be exchanged simultaneously.

Components

Components	Amount
96-well plate	2 ea (Cartridge ① and ②)
Disposable filter tip	2 pack (8 ea/pack)
Dialysis tube in 2 ml tube	2 pack (8 ea/pack)
Protection cover	1 ea

* **Note:** For research use only. Not for use in diagnostic or therapeutic procedures.

Specifications

ExiProgen™ Dialysis Kit	
Reactions	16 rxns
Target protein size	> 10 kDa

Storage

- Store at a temperature between 4°C and 8°C.

Online Resources



Korean



English

Visit our **product page** for additional information and protocols

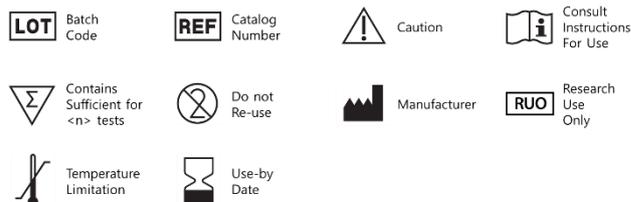
Ordering Information

Description	Cat. No.
ExiProgen™ Dialysis Kit	K-7240

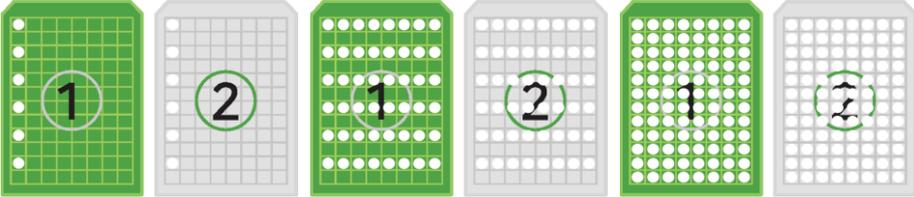
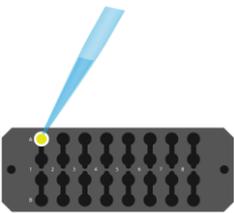
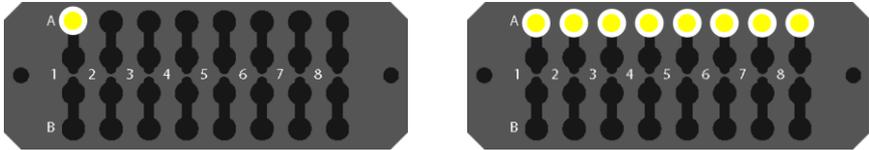
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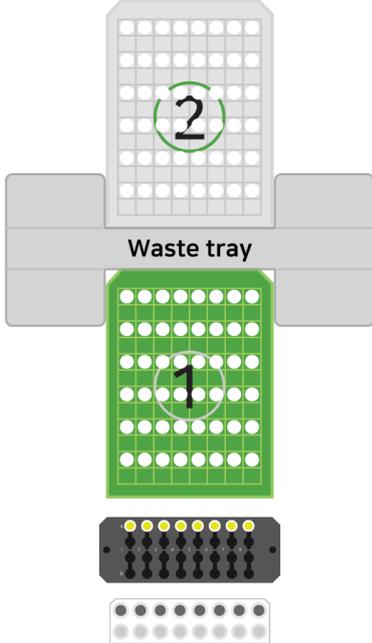
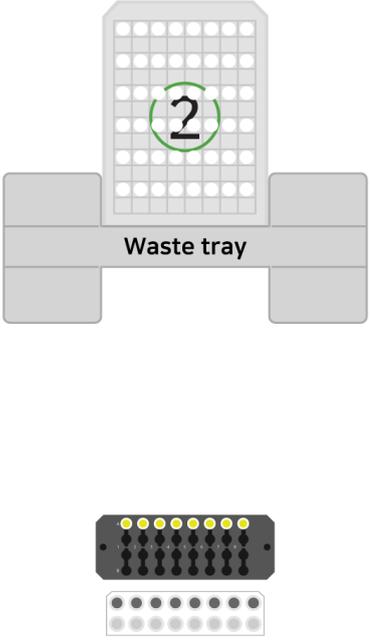
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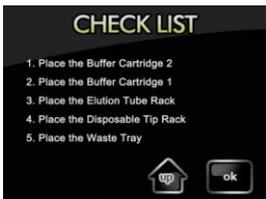
Explanation of Symbols



Experimental Procedures

Steps	Procedure Details									
<p>1</p>  <p>Loading dialysis buffer</p>	<p>1. Punch holes in the sealing films of Cartridge ① and ② using a 6 holes punch (not provided, <i>ExiProgen™</i> accessory). * Note: If using protocol number 913, punch holes of Cartridges ① and ②, and using protocol number 914, punch holes of Cartridge ② only.</p> <table border="1" data-bbox="528 488 1465 607"> <thead> <tr> <th>Protocol number</th> <th>No. 913</th> <th>No. 914</th> </tr> </thead> <tbody> <tr> <td>Protocol name</td> <td>Storage_12</td> <td>Storage_6</td> </tr> <tr> <td>Cartridge</td> <td>Cartridge ① and ②</td> <td>Cartridge ②</td> </tr> </tbody> </table> <p>* Note: The number of columns punched should match with the sample number as shown below.</p> <p>Example 1) For 1 sample Example 2) For 8 samples Example 3) For 16 samples</p>  <p>2. Load 1.4 ml of the dialysis buffer you want to use into punched holes.</p>	Protocol number	No. 913	No. 914	Protocol name	Storage_12	Storage_6	Cartridge	Cartridge ① and ②	Cartridge ②
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<p>2</p>  <p>Rinsing out Dialysis tubes</p>	<p>3. Take out as many Dialysis tubes needed to match the number of protein samples from the 2 ml tubes.</p> <p>4. Remove the 20% ethanol within the tube and rinse out both the inside and the outside of the tube with sterile distilled water.</p>									
<p>3</p>  <p>Setting up Dialysis tubes</p>	<p>5. Set up the rinsed Dialysis tubes on a Reaction block as the diagram below indicates. Fill each tube with protein samples in the Reaction block. * Note: The maximum volume of the dialysis tube is 500 µl. If you use a dialysis buffer that does not contain glycerol, it should be filled up to 250 µl.</p> <p>Example 1) For 1 sample Example 2) For 8 samples</p>  <p>6. Place the Protection cover on the Reaction block.</p> 									

4	 <p>Setting up <i>ExiProgen™</i></p>	<p>7. Place Cartridge ①, ②, Waste tray, Reaction block, and Disposable tip rack into Base plate.</p> <p>* Note: Ensure that tips are located at the same columns with the punched holes of the Cartridges, and there should be no tips at the columns which will not be used.</p> <p>Example 1) For 8 samples with Protocol No. 913 Example 2) For 8 samples with Protocol No. 914</p>   <p>8. Push the Base plate slowly all the way in, and turn on the <i>ExiProgen™</i>.</p> <p>9. After completion of the setup, run the <i>ExiProgen™</i> instrument as follows.</p> <p>* Note: Updated <i>ExiProgen™</i> protocol ver. 4.21 (or higher) required to run this protocol.</p>
5	 <p>Press to start LESS TO 210U BIONEER</p> 	<p>10. Turn on the <i>ExiProgen™</i> and press the “Press to start” button in the center of the screen. Soon the <i>ExiProgen™</i> screen with a moving scroll bar will appear, and after a short period of time it moves to the “MENU” screen. The short pause is for the initialization process of the instrument. If it does not move to the next screen, turn off the instrument and call the customer center for A/S.</p>

	<p>11. In the MENU screen, press the “Start” button to select a proper protocol.</p>
 <p>OR</p> 	<p>12. In the PREP SETUP screen, input the protocol number ‘913’ or ‘914’. Ensure that the following statement appears on the screen. Then, select “Enter”.</p> <p>Prep type: Protein Sample SRC: Storage_12 or Storage_6</p> <p>13. In the PREP SETUP [Elution volume], [Reaction temperature] screen, select “ok”.</p>
	<p>14. Ensure that everything is correctly installed following the CHECK LIST, then choose “ok”.</p>
 <p>↓</p> 	<p>15. In the Running Mode screen shown on the left, ensure that the statement appears on the screen. Then, press “RUN” to initiate protein dialysis.</p> <p>Prep type: Protein Sample SRC: Storage_12 or Storage_6</p> <p>16. “Work Completion” screen appears when the protocol is completed. Open the door and collect final protein samples from dialysis tubes. Remove all components used in the experiment, and choose 1, 2, or ok. * Note: UV lamp will be on automatically if the “ok” button is selected to finish the use of ExiProgen™.</p>
<p>Maintenance</p>	
<ul style="list-style-type: none"> • Reaction block and Waste tray: After washing with water, swap with 70% ethanol and rinse with sterile distilled water. • Disposable tip rack in ExiProgen™: To remove any dirt on the Disposable tip rack, cleanse with 70% ethanol. • Cartridge: The cartridge with unused wells should be covered with their lid and stored at room temperature. 	