Instructions for Use

Celsee™ PRIMING GENIE
Catalog Number 9807

Technical Assistance:
For technical assistance, contact Celsee Diagnostics at techsupport@celsee.com or your authorized distributor.

Manufactured by:
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PRIMING GENIE Use

The purpose of the PRIMING GENIE is to remove air from the microfluidic chip prior to use on the Celsee PREP100 and the Celsee PREP400. The PRIMING GENIE is supplied with tubing and fittings specifically for the Celsee PREP100 and the Celsee PREP400.

Clean the PRIMING GENIE before and after use. First, turn on the PRIMING GENIE and clear out any remaining buffer into a waste container. Place both the tube ends in a glass beaker and add 70% alcohol until the inlet cap is submerged (e.g. 20 mL in a 50 mL beaker). Turn on the PRIMING GENIE for 1 minute allowing the 70% alcohol to pass through the tubes. After 1 minute, remove the liquid into an empty glass beaker by turning on the PRIMING GENIE for 30 seconds. Next, rinse the tubes using DI water by dipping both the ends into a beaker with DI water and pressing either the forward or backward button for 30 seconds. After 30 seconds, remove any liquid present in the tubing by turning the PRIMING GENIE on for an additional 30 seconds and placing the tubing on a paper towel or into a waste container. Proceed to the priming steps.

Microfluidic chip set-up and priming

1. Place the manifold onto the Celsee PREP400 or Celsee PREP100 base plate using the two positioning pins. The arrows on the manifold should point towards the waste jar position.

2. Place the microfluidic chip label side up on top of the manifold aligning the holes of the microfluidic chip within the five black O-rings on the manifold.

3. Place the top cover using the guide pins. Clamp down to seal the microfluidic chip between the manifold and the top cover. The O-rings will flatten out slightly.

4. Attach the inlet funnel to the inlet side of the manifold.

5. Plug in the PRIMING GENIE. Place a paper towel under the outlet or place the outlet tubing in a waste container and clear out any liquid present in the tubing. Turn on unit using the switch on the back and set speed at 35 then turn the direction switch to Forward.

6. Add 10 mL priming buffer, supplied in the kit you are using, warmed to 37 °C, into the inlet funnel. Connect the inlet cap to the top of the inlet funnel and the outlet of the PRIMING GENIE to the outlet of the manifold.

7. Place the PRIMING GENIE in the Forward direction for 60 seconds. You will start to see bubbles coming out of the outlet tube.

8. Reverse the PRIMING GENIE for 30 seconds.

9. Forward PRIMING GENIE for another 30 seconds.

10. Reverse PRIMING GENIE for another 30 seconds.
11. Forward PRIMING GENIE for another 30 seconds.
12. Reverse PRIMING GENIE for another 30 seconds.
13. Forward PRIMING GENIE for another 30 seconds.
14. Remove the inlet cap from the inlet funnel and outlet tubing from the manifold. Pipette out most of the priming buffer from the inlet funnel until the fluid level is just above the straight section of the inlet funnel.
15. Remove the PRIMING GENIE fittings and attach the end of the outlet tubing provided on the waste jar to the outlet port of the manifold.
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