

Quick Start Guide

DiluCult™ & DiluCult™ 2

Safety Notes

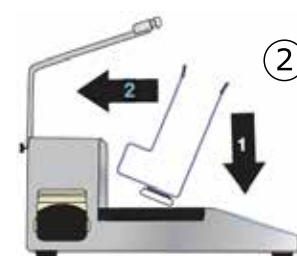
- Only qualified personnel should use and maintain the DiluCult™ instrument.
- Always use DiluCult™ instrument with a grounding plug.
- Do not exceed the authorized weight on the weighing platform:
 - DiluCult™ instrument: 3,000 g
 - DiluCult™ 2 instrument: 5,000 g
- Read the DiluCult™ and DiluCult™ 2 User Guide before use.

Setting up the Instrument

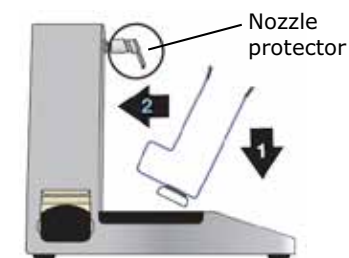
1. Place the instrument on a flat, stable surface, away from any source of excessive heat and close to an properly grounded power supply outlet
2. For the DiluCult™ instrument only, install the fixed arm at the back of the instrument using the Allen wrench and 2 screws provided with the arm. ①
3. Clip the bag holder into the two holes in the base of the instrument. For DiluCult™ 2 only, also clip on the magnetized nozzle protection. ②
4. Install the distribution assembly: ③
 - Place the tube weight at the bottom of the bottle and screw the GL45 cap on the top.
 - Install the tubing into the pump. The direction of flow is indicated by the arrows on the housing.
 - Close the pump, keeping the tubing stretched and making sure the tubing is not pinched.
 - Place the tubing in the tubing holder.



DiluCult™



DiluCult™ 2



Dilution

1. Plug the power cord into the electrical power source (from 100V~ to 240V~).
2. Turn the main switch to the "I" position.
3. Press the power button on the digital display/control panel. A green light glows under the instrument, indicating that it is ready to function. The arm of the DiluCult™ 2 instrument is initialized.
4. Place a bag holder on the instrument.
5. Select dilution mode by pressing the  button. Two beeps sound, and the Dilution LED lights.
6. Select a pump by pressing the  button.
7. Select one of the 3 modes by pressing the  button:
 8. Fast: Fast flow with lower accuracy
 9. Standard: Standard flow with standard accuracy
 10. Accurate: Slow flow with optimal accuracy
11. Select the dilution rate by pressing the   buttons.
12. Place the bag in the bag holder.
13. Press the  button. A beep sounds.
14. When the Place sample LED lights, place the sample in the bag. The weight of the sample appears on the screen.
15. When the green light under the instrument indicates that the weighing platform is stable, start the dilution by pressing the  button. The "In progress" LED lights. The robotic arm of the DiluCult™ 2 instrument moves forward simultaneously.
16. To stop the dilution at any time, press the  button. A beep sounds.
17. To resume the dilution, press the  button.
18. When the dilution is finished:
 - A beep sounds and the final weight is displayed
 - The robotic arm of the DiluCult™ 2 instrument moves back.
 - To run the process again with the same type of bag, place a bag in the bag holder and press the  button.

For further details including distribution, maintenance and troubleshooting, see the DiluCult™ and DiluCult™ 2 User Guide. The DiluCult™ instrument catalog number is 5427530001. The DiluCult™ 2 instrument catalog number is 5427600001.

For technical support, go to sigmaaldrich.com/techservice.

Merck KGaA
Frankfurter Strasse 250
64293 Darmstadt
Germany

sigmaaldrich.com/dilutionpreparation

