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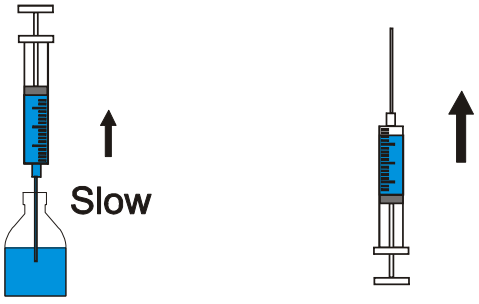
MICRO-PREPCELL PRIMING INSTRUCTION

Bubbles in the u-Prepcell is the number 1 source of poor reproducibility. Bubbles can be generated at the electrode (electrolysis) or with connecting the syringe Luer lock.This document contains important information how to prime/fill the µ-PrepCell without the introduction of air-bubbles. This procedure should be followed strictly to assure optimal performance of the µ-PrepCell. An instruction video and additional information can be found on the Antec support web site: http://www.antecscientific.com/support (access only for registered users, registration is free).

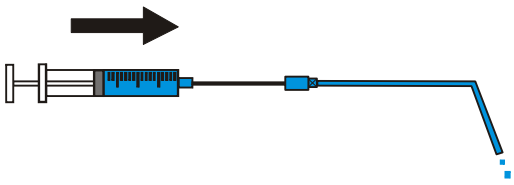
This hardware should be used by trained laboratory personnel only. Use proper eye and skin protection when working with solvents. Additional safety requirements or protection may be necessary depending on the chemicals used in combination with this equipment. Make sure that you understand the hazards associated with the chemicals used and take appropriate measures with regards to safety and protection.

1. Fill the syringe by slowly aspirating degassed sample solution. Warning: too fast aspiration can lead to under pressure in the syringe and subsequent air bubble formation in the solution.
2. Hold the syringe upwards and remove any aspirated air from the syringe. If bubbles are present in the sample solution itself, tick against the syringe to move the bubbles upwards.



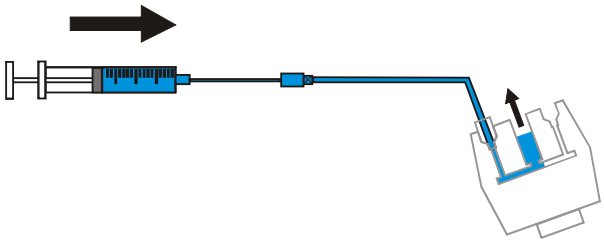
1. 2.

3. Connect a blue-striped PEEK (250 µm ID, 1/16” OD, typically 45 cm in length) inlet tubing to the syringe using a Luer lock connector. Fill the inlet tubing with sample solution.

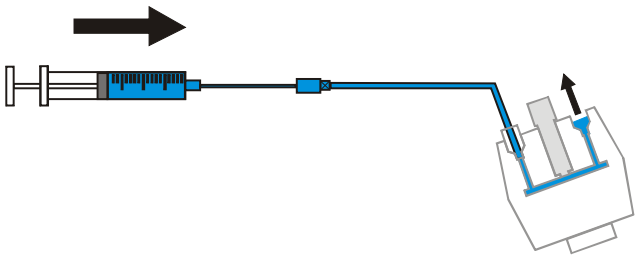


4. Connect the outlet of the tubing to the inlet of the µ-PrepCell using a 10-24 fingertight fitting. Make sure that the outlet tubing and REF electrode are removed from the cell.

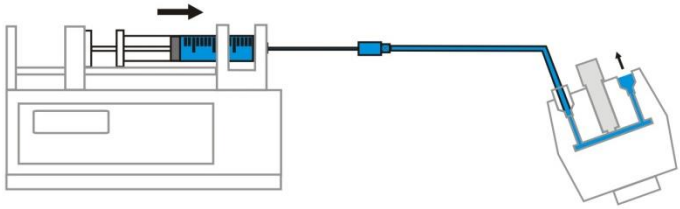
Fill the cell tilted (45° angle) until the sample solution is siphoning from the REF chamber of cell. Push the solution firmly through the cell in order to remove any air-bubble present.



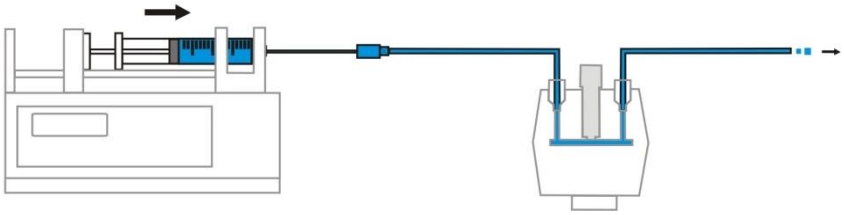
5. Check visually if there are no air bubbles present in the sample solution in the REF chamber. If any air bubbles are present try to remove them. Mount the REF electrode and make sure not to introduce any air bubble during the mounting process. Subsequently, continue filling the cell until the solution is siphoning (air bubble free) from the outlet port.



6. Place the syringe in the infusion pump and start the infusion pump to dispense at the designated flow rate.



7. Subsequently connect a red-striped PEEK (127 µm ID, 1/16” OD, typically 1 meter in length) outlet tubing to the outlet port of the cell using a 10-32 fingertight fitting. Fill the outlet tubing with sample solution.



8. The cell is now primed and ready for use.