



Micro fraction collection

Instructions

Instruction

The following instruction describes mounting of a fused silica capillary tubing (80 cm × 150 µm i.d.) between the ÄKTAmicro system and Frac-950, enabling collection fractions in the range 40 to 500 µl. Components for the installation are included in the Micro Fraction Collection Kit (28-9487-80).

Step Action

- 1** Remove the default 1/16" peek tubing between the instrument and Frac-950. Also unscrew the connection between the conductivity cell and UV-cell for easier handling.
- 2** Mount the fused silica/sleeve construct (80 cm x 150 µm i.d.) to the fingertight connection of the fraction collector, bypassing the accumulator. Be sure to align the sleeve with the top of the fingertight connector. (See figure 1 below)

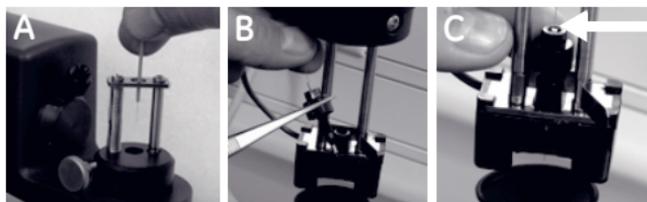
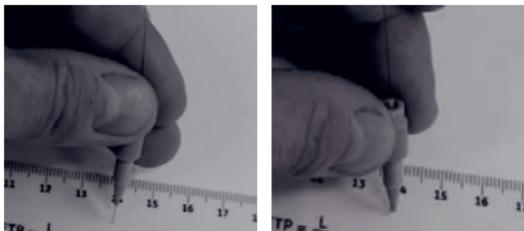


Fig 1. The photo series shows the installation of the 150 µm o.d. capillary tubing to Frac-950. The procedure includes (A) insertion of sleeve/ capillary construct through the opening of the collector head, (B) insertion through fingertight connector and (C) connection to the Drop Sync unit. Observe that the sleeve should be aligned with the upper part of the fingertight connector (indicated by arrow).

Step Action

- 3** Insert an orange sleeve into the other end of the fused silica, protruding approximately 2 mm out of the tip of the fingertight. Align the capillary end with the sleeve using a flat surface such as a ruler. This will assure a dead volume free connection.



- 4** Carefully mount the tubing construct directly in the open end of the conductivity cell by screwing the fingertight connector into the conductivity cell by hand. When finger tight, use the supplied ¼" wrench to tighten the connection, approximately half a turn. Similarly, tighten the connection between the conductivity cell and the UV-cell.



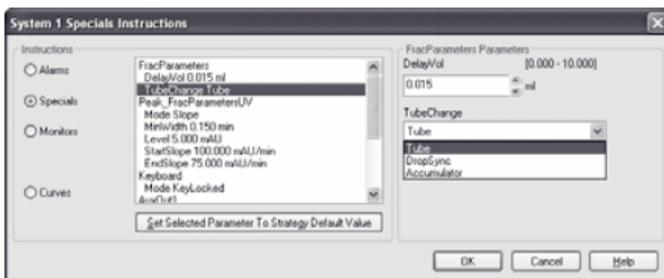
- 5** Check all connections for leakage and safety by applying a flow of 500 µl/min.

Step Action

- 6 For increased safety, fix the capillary to the delivery arm with the attachment label.



- 7 Open the **System Control** module in UNICORN™ and navigate to **System\settings**.



- Adjust the delay volume to 0.015 ml.
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