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| Date | 20 Jan 2011 | Service Note # | 4300-1002 | Updated | N/A |
| Product | Evolution 4300 | | Created By | JY | |
| Description | Sampler Line Tubing Verification | | | | |

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| Release | <input checked="" type="checkbox"/> | Internal | <input checked="" type="checkbox"/> | Distributors | <input checked="" type="checkbox"/> | Customers |
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| Parts Required | Serial Numbers Affected |
|---|-------------------------|
| <ul style="list-style-type: none"> • 1 Liter Beaker • DI Water • Sampling Probes • Test Tubes | All |

Solution / Action

When installing or replacing tubing lines it is important to verify that the individual lines are connected correctly. If they are not routed correctly it will cause the collected media in the test tubes not to match the vessel positions. This procedure describes how to verify that each individual tubing line is correctly routed.

NOTE: Procedure is for both Pump A and Pump B.

Step 1 Create and save a method (named LINECHECK) and set the pump flow rates to 8mL/minute. Leave every other setting as default.

Step 2 Load "LINECHECK" method for pumps A and B.

Step 3 Run an "EMPTY" cycle using manual ACTION on pumps A and B.

Step 4 Fill the 1 liter beaker with at least 500mL of DI water and place all probes (without filter) in the beaker. Place a set of empty test tubes (6 or 8) on row 01.

Step 5 Run a “FLUSH” cycle using manual ACTION on pumps A and B.

Step 6 Select the “SAMPLE” manual ACTION on pump A and set the parameters as follows:

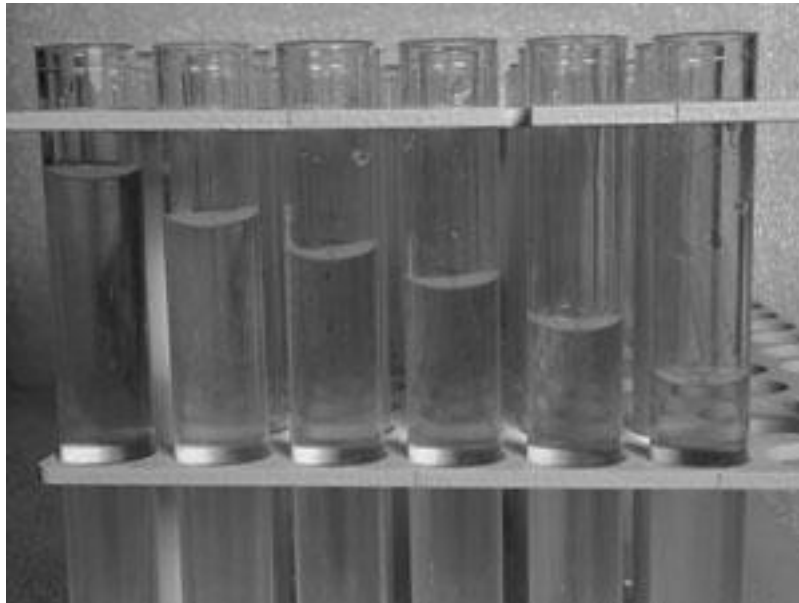
- Rows: 01
 - Volume: 8mL
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Step 7 Remove all the probes from the beaker (with water) except for probe #1.

Step 8 Run the “SAMPLE” action. Count 1,2,3,4 (or every 4 seconds) and place probe #2 in beaker (with water), after another 4 seconds, place probe #3 in beaker, and so on and so forth until the last probe.

Once the sample action is complete, the test tubes should fill up in descending order as shown below.

Step 9



Sample lines 1 to 6 installed properly.

Perform Steps 4 to 9 for pump B.

Step 10

These conclude the procedure on how to verify that the tubing lines were installed properly.
