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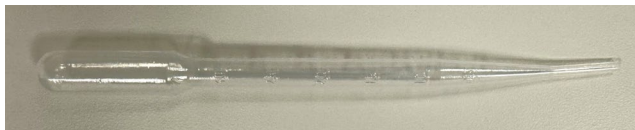
This protocol is for backloading an MVROC I syringe with very viscous sample or samples that cannot be properly loaded with a union.

Materials:

Norm-Ject-f Syringe- appropriate for 1 or 0.5 mL syringes.



A dropper- appropriate for 10 mL syringes.



For Norm-Ject-f Syringe Syringe Backloading:

To backload a syringe, take the Norm-Ject-f syringe and load the sample into it. If loading into a 0.5 mL syringe, load the sample past the 0.5 mL mark if there is sample available. For the 1 mL, load the sample into the whole syringe if there is sample available.



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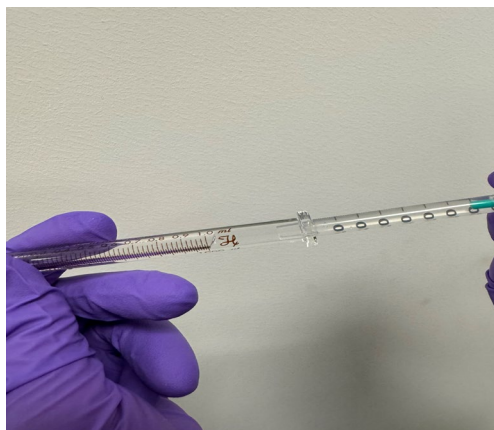
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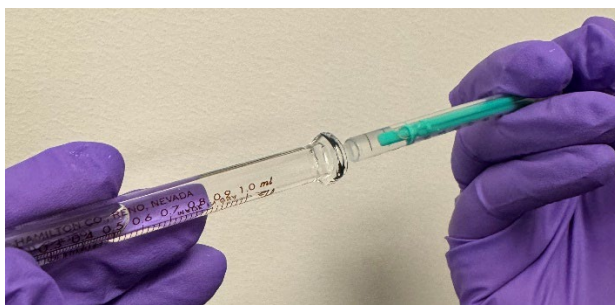
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Place the end of the syringe into the end of the barrel. SLOWLY, start to dispense the sample into the barrel. Ideally, the sample should evenly flow down the barrel.



With the last 100 to 200 μ L of the sample left in the syringe, continue to dispense the sample while SLOWLY moving the syringe out. The sample should be at the end of the barrel near the hole.



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Carefully place the plunger of the syringe into the back of the barrel. There shouldn't be any gaps or air between the plunger and the sample. Note: Having the plunger at an angle can help minimize bubbles forming.



Push the plunger into the barrel to have the sample be at the beginning of the syringe.



Proceed to testing the sample as normal.



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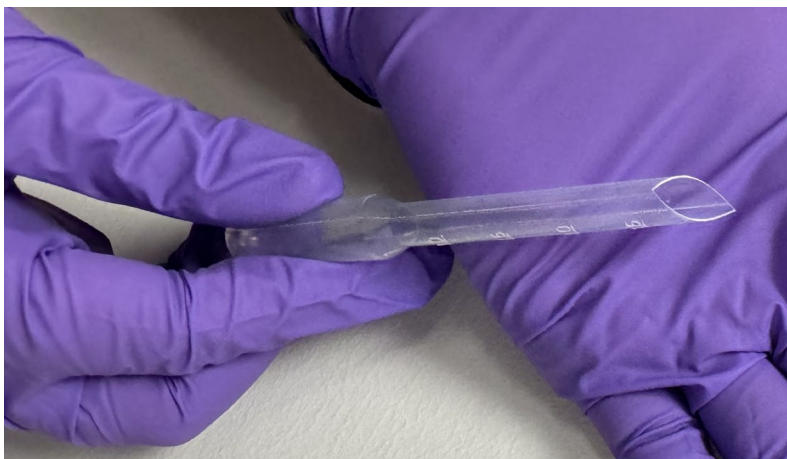


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Back Loading with a Dropper:

Take a plastic disposable dropper and cut the end off at an angle to create almost a shovel.



Close the end of the 10 mL syringe with a cap stopper to prevent sample from flowing out of the barrel.



Fill the dropper with sample. Try not to have bubbles present in your sample. Note: depending on the sample this may be difficult to accomplish. Proceed with loading the sample anyways.

Angle the barrel and the dropper so that the sample can slowly flow down. Ideally, the sample should slowly flow down the wall of the barrel.

Note: It's very important to slowly drain the sample from the dropper. This will help minimize loading bubbles.



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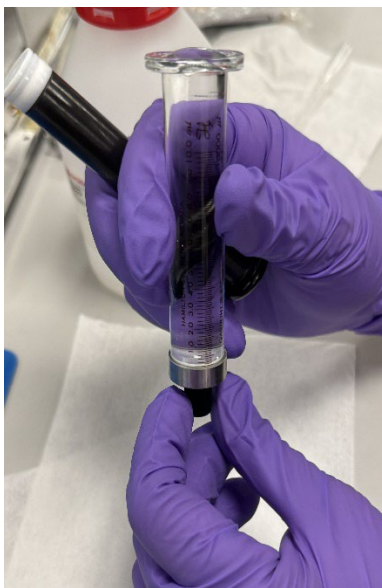
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Repeat this process until there is sample at the very top of the syringe barrel. The sample should be flush with the opening.



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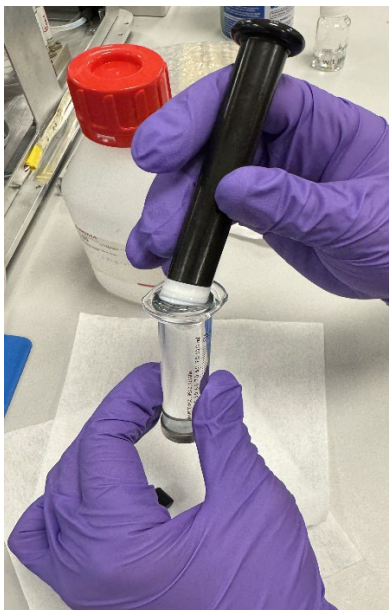


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Remove the cap from the bottom of the syringe. Place some sort of cloth or something to catch sample from falling onto the table or surface.

Take the plunger of the syringe and SLOWLY put it into the barrel at an angle to prevent a gap from forming.



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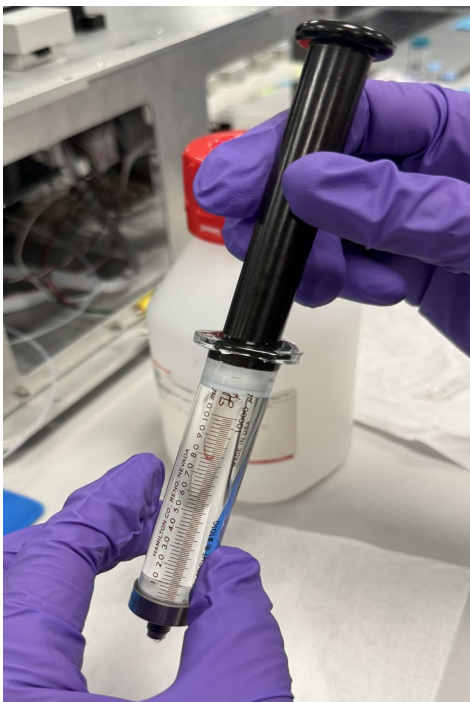
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Continue to push the plunger until it is securely in the barrel.



If bubbles are present, invert the syringe and leave it so that the bubbles can rise to the top.

Carefully remove the bubbles before running the sample.

Continue to run as normal.



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