

Technical Bulletin G0300 - Syringe Vise and Clamp  
CapNMR™ Probe Maintenance  
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Cleaning the CapNMR probe is easy when using the syringe vise and clamp, which is supplied in the standard installation kit. To clean the probe, we recommend rinsing the fluidic pathway with 200  $\mu\text{L}$  of the last known solvent used, then pushing that out with air. Rinse the pathway with 200  $\mu\text{L}$  of acetone- $\text{d}_6$  and follow with more air.

To rinse with a solvent, first make sure the 250  $\mu\text{L}$  syringe is clean. Fill the 250  $\mu\text{L}$  syringe with the desired solvent and attach the capillary-to-luer adapter fitting onto the syringe. Details on how to make the capillary connection are in the Technical Bulletin G0110: Basic Connections.



Unscrew both nuts on top of the vise. Pull up and remove the two nuts and bracket. Make sure the main (spring-loaded) barrel is toward the other end of the vise by turning the main wheel. Place the syringe into the vise so the lip of the syringe fits into the space between the front and the restraint arm. Place the bracket back on top of the vise and screw the nuts back in making sure the bracket holds the syringe firmly. Finally, screw the main barrel forward so the plunger fits inside the barrel and pushes against the captured spring.

Pushing solvent from the probe is done with the syringe clamp. Attach the same Luer adapter fitting onto your 5 mL syringe. Place the end of the plunger in the base of the clamp and then, holding the clamp firmly, push the syringe body down and twist the syringe lip into the holding slots. Allow the air to flow through the probe for several minutes pushing out any solvent in the fluidic pathway.

