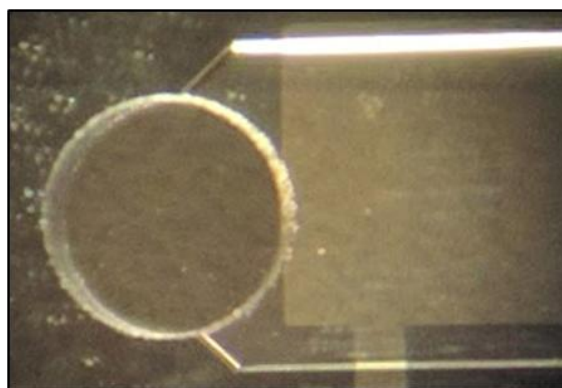
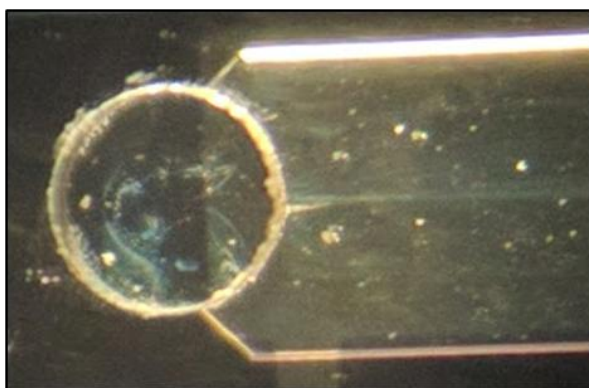




Why use Zymit® Pro for Enhanced Cleaning of VROC Microfluidics?

The precision of VROC microfluidic viscometry, such as those utilized in m-VROC®, microVISC®, and Initium® systems, relies on maintaining clean flow channels and sensor surfaces. When characterizing protein-based samples, like monoclonal antibodies (mAbs), appropriate cleaning is critical to prevent residue buildup, which can lead to inaccurate measurements. Best cleaning practices call for cleaning with a good solvent, typically formulation buffer containing 1wt.% of Tween20 or Aquet, as well as periodically (once every 3 – 15 samples) with undiluted Zymit® Pro using a pre-installed Enzymatic Cleaning protocol designed for long soaking times (> 1 hour) at elevated temperatures (50 °C).

Zymit® Pro Liquid Enzyme Cleaner contains protease enzymes & other ingredients that break down proteins and help remove them from the microfluidic channel. See pictures below of microfluidic flow channel & inlet with protein residue (left) vs. same channel & inlet after cleaned with Zymit® Pro (right).



Although Tergazyme is used in some cleaning applications to remove protein residues, Zymit® Pro holds multiple advantages for cleaning microfluidic and automated instruments, as shown in the table:

Feature	Zymit® Pro	Tergazyme
Physical Form	Liquid.	Powder.
Dilution or dissolving required?	No. Can be used as is (full-strength).	Yes. Requires dissolving to 1 – 3 wt.%.
Filtration required?	No.	Yes. Requires filtration with a $\leq 1 \mu\text{m}$ pore-size filter to remove any undissolved particles that could clog the microfluidic channel.
Shelf life	2 years from date of manufacture.	4 – 8 hours after dissolving.

