

Simply Precise™ with just 18 µL of Sample!

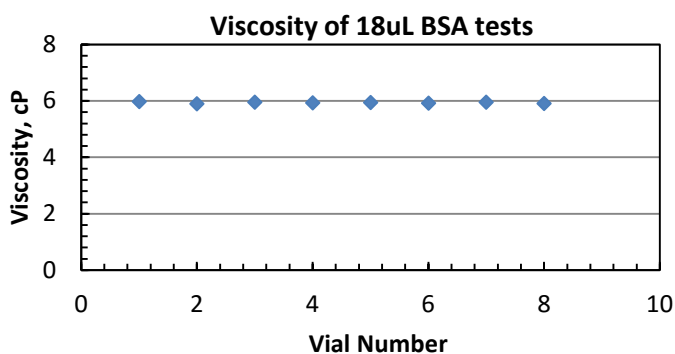
A key application of VROC® initium is the hands-free measurement of large numbers of samples with limited sample volume. This allows for viscosity characterization of samples where it was previously unfeasible, due to the large costs of sample or manpower involved with traditional viscometry methods.

The test was conducted as follows:

1. 25 µL samples of BSA (302 mg/mL in water) were loaded into 11 mm vials with 300 µL small-volume inserts (Wheaton)
2. The autosampler loaded 18 µL of the sample into the VROC® initium unit.
3. VROC® initium unit performed a measurement with the loaded sample at a fixed shear rate.
4. VROC® initium performed self-cleaning with preset protocols, and proceeded to the next sample.

8 vials of BSA were tested. The results indicated that the average viscosity of the BSA sample was 5.94 cP at 25°C, with a relative standard deviation of 0.45%!

Vial No.	Chip Temp °C	Shear Rate, 1/s	Viscosity, cP
8	25	1065	5.984
7	25	1065	5.904
6	25	1065	5.956
5	25	1065	5.93
4	25	1066	5.943
3	25	1065	5.926
2	25	1066	5.958
1	24.99	1066	5.913



If you have questions or need more information about this product or other applications, please contact us:

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