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Sample preparation for PIV in organ-on-a-chip device

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Protocol status: Working

We use this protocol and it's working

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Abstract

The protocol describes preparation of samples to be used in PIV measurements performed in OOC devices. Keep in mind that the substances and variables may change significantly depending on the optical system and OOC device used.



- 1 Prepare  1 mL  flow substance
- 2 Take  50 μ L of tracer particle solution (example: 1 μ m Nile Red; must be chosen for the laser used in PIV and the optical system) and add to  flow substance
- 3 Shake for  00:00:05 in a lab tube shaker 5s
- 4 Place for  00:30:00 in an ultrasonic bath 30m
- 5 The sample is now prepared for PIV measurements. It cannot be reliably expected to retain colloidal stability for more than  01:00:00