

Fluo-Break : Emulsion Breaker

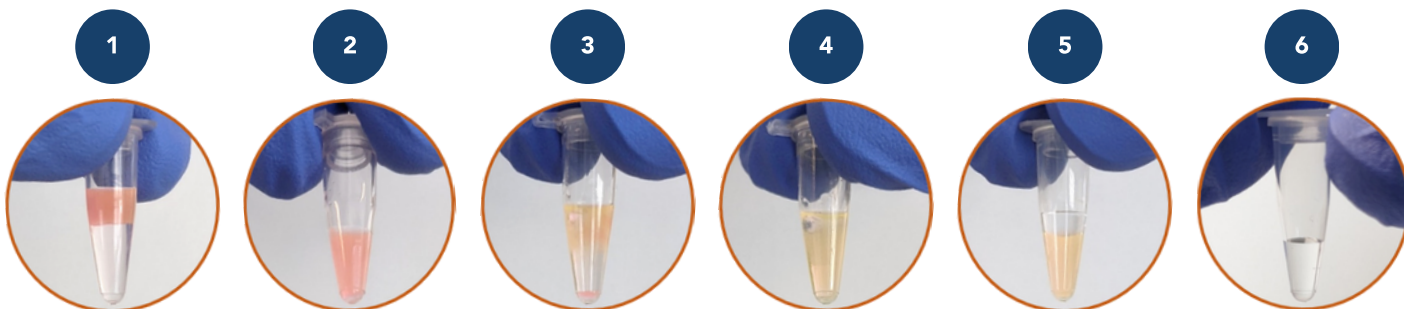
OBJECT

Fluo-Break is an emulsion-breaking product from Emulseo. Fluo-Break has been formulated to efficiently break droplets stabilized with Emulseo surfactants. Fluo-Break allows easy and reproducible droplet phase recovery and is suitable for use with Emulseo surfactants and oils (FluoSurf™ and Fluo-Oil). Fluo-Break can be used for many applications, including cell recovery from microfluidic droplets.

This document will show you how to use Fluo-Break.

PROTOCOL

1. Transfer the emulsion into a microcentrifuge tube. The upper phase is the emulsion. The lower phase is the excess of FluoSurf™ diluted in Fluo-Oil.
2. Carefully remove the excess oil (bottom phase) with a pipette tip.
3. Add Fluo-Break to the emulsion (1x emulsion volume) and close the lid.
4. Shake the microcentrifuge tube manually. The emulsion will begin to break.
5. Centrifuge the tube in a microcentrifuge for 1 minute. The two phases will be completely separated. The upper phase is the aqueous phase and the lower phase is a mixture of Fluo-Break and Fluo-Oil.
6. Remove the upper phase with a pipette tip and transfer it to a clean microcentrifuge tube. The aqueous phase can now be used for further experiments.



NOTE

For droplets stabilized with high concentrations of FluoSurf™, it may be necessary to increase the volume of Fluo-Break added to break the emulsion. The volume of Fluo-Break to be added will also depend on the composition of the droplet phase.

To learn more about surfactants and other formulation products for droplet microfluidics, please visit www.emulseo.com

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