Supplemental Information Available

Rapid and efficient sample preparation from complex biological samples using a Sliding Lid for Immobilized Droplet Extractions (SLIDE)

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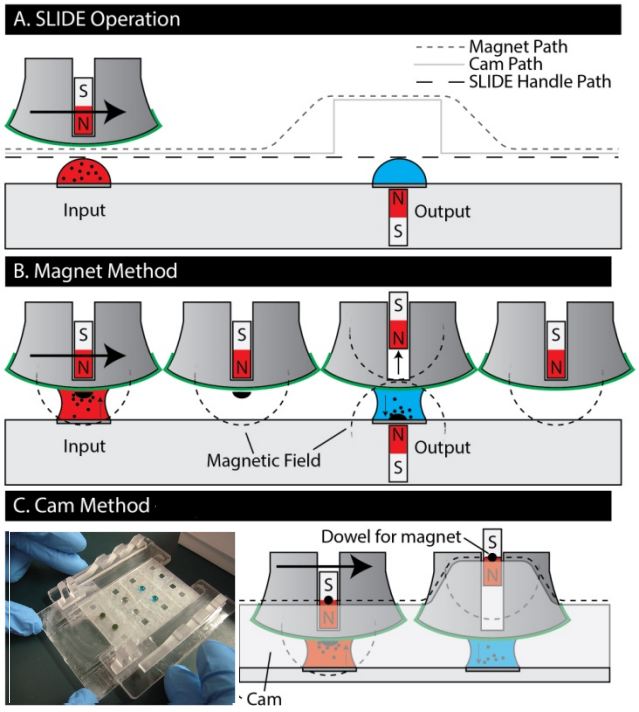
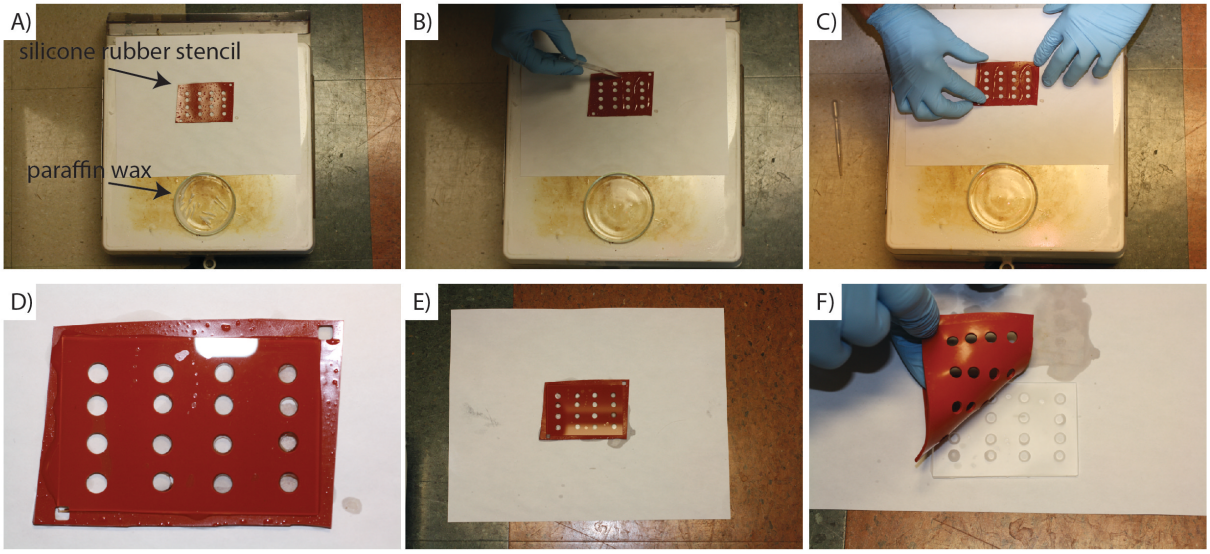
Supplemental Figures

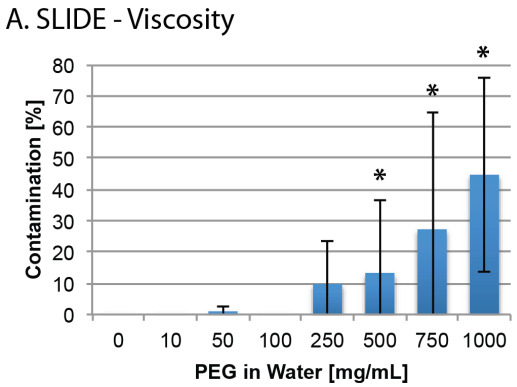


Supplementary Figure 1: The SLIDE cam versus magnet method. A) SLIDE operation showing either a CAM path to move the magnet or the magnetic displacement force. B) Detailed description of the magnetic method to move PMPs from the top surface to the bottom drop. C) The cam-based SLIDE is shown (left) with the physical motion (right).



Supplementary Figure 2: The method for making the SLIDE disposables A) paraffin wax is melted on a hot plate. B) Paraffin wax is pipetted onto the silicone stencil. C) A glass slide is placed onto the silicone stencil. D) A close-up showing the melted wax spreading to coat the glass surface where the stencil contacts the glass. E) The stencil and glass are removed from

the hot plate and allowed to cool at room temperature. F) The stencil is peeled from the glass disposable, showing the patterned paraffin on the disposable glass part.



Supplementary Figure 3: The amount of carryover from various viscosity fluids was evaluated in the SLIDE. * bars represent failure of the PMPs to be removed from the liquid, as the fluid acts as a ferrofluid.