Supporting Information

## Hydrophobic sol-gel channel patterning strategies for paperbased microfluidics

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**Fig. S1**: Flow of dye solution on MSQ-printed channels with or without Tris buffer layer. The channels were tested 6 hr after printing with Tris and 12h after printing without Tris. The line thickness set for the printing was 1.5 mm and the actually formed barrier was about 2 mm.



**Fig. S2**: FTIR spectra of whatman #1 paper, MSQ-impregnated and MSQ-printed paper. The sharp band at  $1270 \text{ cm}^{-1}$  and  $770 \text{ cm}^{-1}$  represented Si-CH<sub>3</sub> group.

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