

Microembossing: A Convenient Process for Fabricating Microchannels on Nanocellulose Paper-Based Microfluidics

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Materials

Name	Company	Catalog Number	Comments
AgNO ₃	Hushi (Shanghai, China)	7761-88-8	>99%
Ethanol	Hushi (Shanghai, China)	64-17-5	>99%
Hexadecane	Macklin (Shanghai, China)	544-76-3	>99%
LabSpec software	Horiba (Japan)	LabSpec5	
Melamine	Macklin (Shanghai, China)	108-78-1	>99%
NaBH ₄	Aladdin (Shanghai, China)	16940-66-2	>99%
Origin lab software	OriginLab (USA)		
Polyethylene terephthalate (PET)	Myers Industries (Akron, USA)		
Polytetrafluoroethylene films	Shenzhen Huashenglong plastic material Co., Ltd. (Shenzhen, China)		Teflon film
PVDF filter membrane	EMD Millipore Corporation (USA)	VVLP04700	pore size: 0.1 μm
Raman spectrometer	Horiba (Japan)	Xplo RA	
Rhodamine B	Macklin (Shanghai, China)	81-88-9	>95%
Scanning electron microscopy (SEM)	FEI(USA)	Scios 2 HiVac	
Silicon wafer	Horiba (Japan)		diameter: 5 mm
TEMPO-oxidized NFC slurry	Tianjin University of Science and Technology		1.0 wt% solid, carboxylate level 2.0 mmol/g solid, average nanofiber diameter: 10 nm