

Materials List for:

Controlled Microfluidic Environment for Dynamic Investigation of Red Blood Cell Aggregation

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Materials

Name	Company	Catalog Number	Comments
SU8-50 epoxy based negative Photo-resist	MicroChem Corp.		
SU8-50 developer	MicroChem Corp.		
Poly(dimethylsiloxane) (PDMS) Sylgard-184	Dow-Corning	3097358-1004	
PE-50 series Plasma system	Plasma Etch	PE-50 series	
Blood collection tubes with K ₂ -EDTA (ethylenediaminetetraacetic acid)	FisherSci	B367861	
Centrifuge, <i>i.e.</i> Thermo Scientific CL2	Thermo Scientific	004260F	
Poshpatе buffered saline (PBS)	Sigma Aldrich	P5368-10PAK	
Tracer fluorescent particles solution (15 ml)	FisherSci	R800	
Aggregometer	RheoMeditech	Rheo Scan AnD300	
Glass syringes (50 µl)	Hamilton	80965	
Tubing (Tygon)	FisherSci	AAA00001	
High speed camera (Basler)	Graftek Imaging Inc.	basler acA2000-340km	A camera capable of recording 18 frames per second could be used.
Double pulsed camera	LaVision	Imager Intense	
Microscope MITAS	LaVision	MITAS	
Nd:YAG laser	New Wave Research	Solo-II	
Syringe pump (Nexus3000 and PicoPlus)	Chemyx Inc. and Harvard Apparatus	Nexus3000 and PicoPlus	
DaVis software	LaVision	Davis	