

Materials List for:

Generation and Control of Electrohydrodynamic Flows in Aqueous Electrolyte Solutions

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Materials

Name	Company	Catalog Number	Comments
Sylgard 184	Dow Corning Corp.	3097366-0516, 3097358-1004	PDMS
Acetone	Wako Pure Chemical Industries, Ltd.	012-00343	
Ethanol	Wako Pure Chemical Industries, Ltd.	054-00461	
0.1 mol/L Sodium Hydroxide Solution	Wako Pure Chemical Industries, Ltd.	196-02195	
Potassium Chloride	Wako Pure Chemical Industries, Ltd.	163-03545	
Tris-EDTA buffer 100x concentrate	Sigma-Aldrich Co. LLC.	T9285-10014L	
2.93 µm polystyrene particle	Merck KGaA	L300 Rouge	Tracer particle
1.01 µm polystyrene particle	Merck KGaA	K100(23716)	Tracer particle
Anion exchange membrane	ASTOM Corp.	Neosepta AHA	
Gold (Au)	Furuuchi Chemical Corp.	AUT-13301X	Sputtering target metal
Titanium	Furuuchi Chemical Corp.	TIT-72301X	Sputtering target metal
Chromium	Furuuchi Chemical Corp.	CRT-24301X	Sputtering target metal
High-speed CMOS camera	Keyence Corp.	VW-600M	
Microscope	Keyence Corp.	VW-9000	
Data logger	Keyence Corp.	NR-500, NR-HA08	
Laser displacement meter	Keyence Corp.	LK-G5000, LK-H008W	
PIV and PTV software	DITECT Co. Ltd.	Flownizer 2D	
Potentiostat	AMTEK Inc.	VersaSTAT4	
Inverted microscope	Olympus Corp.	IX73	
High-speed CMOS camera	Andor Technology Ltd.	Zyla 5.5 sCMOS	
Function generator	NF Corp.	WF1945B	
Function generator	NF Corp.	WF1973	
Ultrasonic cleaner	AS ONE Corp.	AS22GTU	
Rotary pump	ULVAC, Inc.	G-100S	Degas liquid PDMS
Rotary pump	ULVAC, Inc.	GLD-201A	Sputtering
Molecular diffusion pump	ULVAC, Inc.	VPC-400	Sputtering