

Materials List for:

Construction of Modular Hydrogel Sheets for Micropatterned Macro-scaled 3D Cellular Architecture

Jaejung Son¹, Chae Yun Bae¹, Je-Kyun Park¹

¹Department of Bio and Brain Engineering, Korea Advanced Institute of Science and Technology (KAIST)

Correspondence to: Je-Kyun Park at jekyun@kaist.ac.kr

URL: <http://www.jove.com/video/53475>

DOI: [doi:10.3791/53475](https://doi.org/10.3791/53475)

Materials

Name	Company	Catalog Number	Comments
Sylgard 184 Silicone Elastomer Kit	Dow Corning Corporation	000000000001064291	
Pluronic F-127	Sigma-Aldrich	P2443	Powdered nonionic surfactant
Alginate sodium salt, low viscosity	Alfa Aesar	B25266	
Calcium chloride dihydrate	Sigma-Aldrich	C7902	
Ultrasonic humidifier	MediHeim	MH-2800	Modified equipment, Maximum sprayed rate: 250 ml/hr
Nylon net filter hydrophilic, 180 µm	EMD Millipore	NY8H04700	
Polycarbonate mold			Customized mold for fabrication of a PDMS frame pattern