

Materials List for:

Thin Film Composite Silicon Elastomers for Cell Culture and Skin Applications: Manufacturing and Characterization

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URL: <https://www.jove.com/video/57573>

DOI: [doi:10.3791/57573](https://doi.org/10.3791/57573)

Materials

Name	Company	Catalog Number	Comments
2-Propanol, 97%	Stockmeier Chemie	1000452610000	Isopropanol
Abrasive diamnod hand pad	Bohle	MO 5007522	Grit: 220
Accutase	Capricorn Scientific	ACC-1B	
Albumin Fraktion V	Roth	0163.2	BSA
Alexa Fluor 488 Phalloidin	ThermoFischer Scientific	A12379	highly toxic
Aquamount	Polysciences	18606-20	water soluble mounting medium
CytoTox-ONE Homogeneous Membrane Integrity Assay	Promega	G7890	
DPBS, without Ca ²⁺ , Mg ²⁺	ThermoFischer Scientific	14190094	
Fetal bovine serum gold	GE Health Care Life Science	A15-151	FBS
Goniometer OCA35	Dataphysics		for the determination of the static water contact angle
Hoechst Dye 33342	Sigma-Aldrich	B1155-100MG	bisBenzimide H 33342 trihydrochloride, highly toxic
Microscope Axiovert 25	Zeiss		Microscope used for cell culture documentation
Microscope Eclipse LV100ND	Nikon		Microscope used for film thickness determination
Paraformaldehyde, aqueous solution 16%	Electron Microscopy Sciences	RT 15710	electron microscopy grade
penicillin und streptomycin solution	Sigma-Aldrich	P4333-100ML	
Phenom XL Scanning Electron Microscope (SEM)	Phenom		
Poly-(vinyl alcohol) 4-88, MW 31000	Sigma-Aldrich	81381-1KG	Mowiol 4-88
Poly-dimethyl siloxanes, Sylgard 184	Dow Corning	(400)000108351397	PDMS
RPMI 1640 basal medium	ThermoFischer Scientific	21875034	
soft skin adhesive (SSA)	Dow Corning	(400)000108251792	MG 7-9800 Soft Skin Adhesive (SSA)
speed mixer DAC 600.2 VAC-P	Hauschild		
stylus profilomter	Zeiss		Model: SURFCOM 1500SD3
Tecan Infinite M200 pro	Tecan		fluorescence plate reader
Triton X 100	Calbiochem	648466	

Trypan Blue solution	Sigma-Aldrich	T8154-100ML	highly toxic
Trypsin/EDTA solution	PAN-Biotech	P10-023500	0.05% Trypsin, 0.02% EDTA in PBS
UV glue	Bohle	BO MV76002	medium viscosity