

Materials List for:

Hemocompatibility Testing of Blood-Contacting Implants in a Flow Loop Model Mimicking Human Blood Flow

Antonia Link¹, Giorgio Cattaneo^{2,3}, Eduard Brynda⁴, Tomas Riedel⁴, Johanka Kucerova⁴, Christian Schlensak¹, Hans Peter Wendel¹, Stefanie Krajewski¹, Tatjana Michel¹

¹Department of Thoracic, Cardiac and Vascular Surgery, University Hospital Tuebingen

²Acandis GmbH

³Institute of Biomedical Engineering, University of Stuttgart

⁴Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic

Correspondence to: Tatjana Michel at tatjana.michel@uni-tuebingen.de

URL: <https://www.jove.com/video/60610>

DOI: [doi:10.3791/60610](https://doi.org/10.3791/60610)

Materials

Name	Company	Catalog Number	Comments
aqua ad iniectabilia	Fresenius-Kabi, Bad-Homburg, Germany	1088813	
beta-TG ELISA	Diagnostica Stago, Duesseldorf, Germany	00950	
Centrifuge Rotana 460 R	Andreas Hettich, Tuttlingen, Germany	-	
Citrat monovettes (1.4 mL)	Sarstedt, Nümbrecht, Germany	6,16,68,001	
CTAD monovettes (2.7 mL)	BD Biosciences, Heidelberg, Germany	367562	
EDTA monovettes (1.2 mL)	Sarstedt, Nümbrecht, Germany	6,16,62,001	
Ethanol p.A. (1000 mL)	AppliChem, Darmstadt, Germany	1,31,08,61,611	
Glutaraldehyde (25 % in water)	SERVA Electrophoresis, Heidelberg, Germany	23114.01	
Heparin coating for tubes	EnSION, Pittsburgh, USA	-	
Heparin-Natrium (25.000 IE/ 5 mL)	LEO Pharma, Neu-Isenburg, Germany	PZN 15261203	
Multiplate Reader Mithras LB 940	Berthold, Bad Wildbad, Germany	-	
NaCl 0,9%	Fresenius-Kabi, Bad-Homburg, Germany	1312813	
Neutral monovettes (9 mL)	Sarstedt, Nümbrecht, Germany	2,10,63,001	
PBS buffer (w/o Ca2+/Mg2+)	Thermo Fisher Scientific, Darmstadt, Germany	70011044	
Peristaltic pump ISM444B	Cole Parmer, Wertheim, Germany	3475	
Pipette (100 µL)	Eppendorf, Wesseling-Berzdorf, Germany	3124000075	
Pipette (1000 µL)	Eppendorf, Wesseling-Berzdorf, Germany	3123000063	
Plastic container (100 mL)	Sarstedt, Nümbrecht, Germany	7,55,62,300	
PMN-Elastase ELISA	Demeditec Diagnostics, Kiel Germany	DEH3311	
Polyvinyl chloride tube	Saint-Gobain Performance Plastics Inc., Courbevoie France	-	
Reaction Tubes (1.5 mL)	Eppendorf, Wesseling-Berzdorf, Germany	30123328	
neurovascular laser-cut implants	Acandis GmbH, Pforzheim	01-0011x	

SC5b-9 ELISA	TECOmedical, Buende, Germany	A029	
Scanning electron microscope	Cambridge Instruments, Cambridge, UK	-	
Sealing tape (96 well plate)	Thermo Fisher Scientific, Darmstadt, Germany	15036	
Syringe 10/12 mL Norm-Ject	Henke-Sass-Wolf, Tuttlingen, Germany	10080010	
TAT micro kit	Siemens Healthcare, Marburg, Germany	OWMG15	
Waterbath Type 1083	Gesellschaft für Labortechnik, Burgwedel, Germany	-	