

Materials List for:

Engineered Vascularized Muscle Flap

Dana Egozi¹, Yulia Shandalov^{*2}, Alina Freiman^{2,3}, Dekel Rosenfeld², David Ben-Shimol⁴, Shulamit Levenberg²

¹Department of Plastic Surgery, Kaplan Medical Center

²Biomedical Engineering, Technion Israel Institute of Technology

³Interdepartmental Program in Biotechnology, Technion Israel Institute of Technology

⁴Medicine Department, Technion Israel Institute of Technology

*These authors contributed equally

Correspondence to: Shulamit Levenberg at shulamit@bm.technion.ac.il

URL: <https://www.jove.com/video/52984>

DOI: [doi:10.3791/52984](https://doi.org/10.3791/52984)

Materials

Name	Company	Catalog Number	Comments
small fine straight scissors	Fine Science Tools (FST)	14090-09	
spring scissors	Fine Science Tools (FST)	15003-08	
straight forceps with fine tip	Fine Science Tools (FST)	11251-20	
serrated forceps	Fine Science Tools (FST)	11050-10	
needle holder	Fine Science Tools (FST)	12500-12	
Small vessel cauterizer	Fine Science Tools (FST)	18000-00	
Duratears	Alcon	5686	
Sedaxylan	Euravet	DJ03	
Clorketam 1000	Vetoquinol	4A0726B	
Buprenorphine	vetmarket	B15100	
4-0 silk sutures	Assut sutures	647	
6-0 polypropylene sutures	Assut sutures	9351F	
8-0 silk sutures	Assut sutures	684568	
Insulin syringe (6 mm needle)	BD	324911	
Vevo 2100 high-resolution ultrasound system	VisualSonics inc.		
MS250 non-linear transducer	VisualSonics inc.		
Micromarker non-targeted contrast agent	VisualSonics inc.	VS-11694	
tail vein catheter	VisualSonics inc.	VS-11912	
Vevo 2100 software	VisualSonics inc.		
fluorescein isothiocyanate-conjugated dextran	Sigma	FD500S	
Matlab	Mathworks, MA, USA		
Kimwipes	Kimtech	34120	
antigen unmasking solution	Vector laboratories	H-3300	
anti-CD31 antibody	Abcam	ab28364	
biotinylated goat anti-rabbit (secondary) antibody	Vector laboratories	BA-1000	
streptavidin-peroxidase	Jackson	016-030-084	
Mayer's hamatoxylin solution	Sigma-Aldrich	MHS-16	
aminoethylcarbazole (AEC) substrate kit	Life technologies, Invitrogen	00-2007	

Vectamount	Vector laboratories	H-5501	
------------	---------------------	--------	--