

Materials List for

Laser-Induced Brain Injury in the Motor Cortex of Rats

Ruslan Kuts^{*1}, Israel Melamed^{*2}, Honore N. Shiyntum³, Benjamin

F. Gruenbaum⁴, Dmitri Frank¹, Boris Knyazer⁵, Dmitry Natanel¹, Olena Severynovska³, Max Vinokur¹, Matthew Boyko¹

¹Division of Anesthesiology and Critical Care, Soroka University Medical Center and the Faculty of Health Sciences, Ben-Gurion University of the Negev

²Department of Neurosurgery, Soroka University Medical Center and the Faculty of Health Sciences, Ben-Gurion University of the Negev ³Department

of Biochemistry and Physiology, Faculty of Biology, Ecology, and Medicine, Oles Honchar Dnipro National University ⁴Department of Anesthesiology, Yale

University School of Medicine ⁵Department of Ophthalmology, Soroka University Medical Center and the Faculty of Health Sciences, Ben-Gurion University of the Negev

* These authors contributed equally

Corresponding Author

Matthew Boyko

matthewboykoresearch@gmail.com

Citation

Kuts, R., Melamed, I., Shiyntum, H.N., Gruenbaum, B.F., Frank, D., Knyazer, B., Natanel, D., Severynovska, O., Vinokur, M., Boyko, M. Laser-Induced Brain Injury in the Motor Cortex of Rats. *J. Vis. Exp.* (), e60928, doi:10.3791/60928 (2020).

Date Published

September 26, 2020

DOI

10.3791/60928

URL

jove.com/video/60928

Materials

Name	Company	Catalog Number	Comments
2,3,5-Triphenyltetrazolium chloride	SIGMA - ALDRICH	298-96-4	
50% trichloroacetic acid	SIGMA - ALDRICH	76-03-9	
Brain & Tissue Matrices	SIGMA - ALDRICH	15013	
Cannula Venflon 22 G	KD-FIX	1.83604E+11	
Centrifuge Sigma 2-16P	SIGMA - ALDRICH	Sigma 2-16P	
Compact Analytical Balances	SIGMA - ALDRICH	HR-AZ/HR-A	
Digital Weighing Scale	SIGMA - ALDRICH	Rs 4,000	
Dissecting scissors	SIGMA - ALDRICH	Z265969	
Eppendorf pipette	SIGMA - ALDRICH	Z683884	
Eppendorf Tube	SIGMA - ALDRICH	EP0030119460	
Ethanol 96 %	ROMICAL		Flammable Liquid
Evans Blue 2%	SIGMA - ALDRICH	314-13-6	
Fluorescence detector	Tecan, Männedorf Switzerland	model Infinite 200 PRO multimode reader	
Heater with thermometer	Heatingpad-1	Model: HEATINGPAD-1/2	
Infusion Cuff	ABN	IC-500	
Isofluran, USP 100%	Piramamal Critical Care, Inc	NDC 66794-017	
Multiset	TEVA MEDICAL	998702	
Olympus BX 40 microscope	Olympus		
Optical scanner	Canon	Cano Scan 4200F	
Petri dishes	SIGMA - ALDRICH	P5606	
Scalpel blades 11	SIGMA - ALDRICH	S2771	
Sharplan 3000 Nd:YAG (neodymium-doped yttrium aluminum garnet) laser machine	Laser Industries Ltd		

Stereotaxic head holder	KOPF	900LS	
Sterile Syringe 2 ml	Braun	4606027V	
Syringe-needle 27 G	Braun	305620	