

Materials List for:

Applications of *In Vivo* Functional Testing of the Rat Tibialis Anterior for Evaluating Tissue Engineered Skeletal Muscle Repair

Ellen L. Mintz¹, Juliana A. Passipieri², Daniel Y. Lovell², George J. Christ^{2,3}

¹Department of Pathology, University of Virginia

²Department of Biomedical Engineering, University of Virginia

³Department of Orthopaedic Surgery, University of Virginia

Correspondence to: George J. Christ at gjc8w@virginia.edu

URL: <https://www.jove.com/video/54487>

DOI: [doi:10.3791/54487](https://doi.org/10.3791/54487)

Materials

Name	Company	Catalog Number	Comments
Isothesia	Henry Schein Animal Health	05260-04-04	
Isoflurane Vaporizer-Funnel Fill	Vet Equip	911103	
Inlet Adaptor for Vaporizer	Vet Equip	911124	
Outlet Adaptor for Vaporizer	Vet Equip	911125	
Tabletop Anaesthesia Machine	Vet Equip	901801	
Compressed oxygen gas	Praxair	N/A	
VaporGuard Activated Charcoal Filter	Vet Equip	931401	
T/Pump Professional water heater	Stryker	N/A	set on Continuous Therapy Time at 38/100 for temperature
Transpore Surgical Tape	3M	1527S-1	rip in half to make thinner strips
A5 Golden animal clippers	Oster	078005-050-002	
Povidone-Iodine Solution	Aplicare	82-227K	
Alcohol Swabs			
200 proof Ethanol	Decon labs		diluted to 70% with deionized water
cotton tipped applicators	Puritan	836-WC	
Teflon coated electrodes- Monopolar needle electrode	Chalgren Enterprises	111-725-24TP	
servomotor	Cambridge Technology	Model 6650LR	
Dual Mode Lever System	Aurora Scientific Inc	Model 305C-LR-FP	contact manufacturer to order
Signal Interface	Aurora Scientific Inc	Model 604A	
High-Power, Bi-Phase Stimulator	Aurora Scientific Inc	Model 701C	
Data analysis software	Aurora Scientific Inc	DMAv5.110 software	
Muscle lever system control software	Aurora Scientific Inc	DMCv5.400 software	