

Materials List for:

Myo-mechanical Analysis of Isolated Skeletal Muscle

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Materials

Name	Company	Catalog Number	Comments
5-0 silk sutures	Oasis	MV682	General surgery
Dupont #5 forceps	WPI	500233	General surgery
Hemostat, straight	WPI	501241	General surgery
Iris forceps	WPI	15914	General surgery
Lab Chart software	ADInstruments	Version 7	Data analysis
Muscle Strip Myograph	DMT	820MS	Tension transduction
Operating scissors	WPI	501754	General surgery
Oscilloscope	EZ	OS-5020	Tension stimulation
Pentobarbital, sodium salt	Sigma	P3761	Euthanasia
PowerLab	ADInstruments	8/30	Data acquisition
Square Pulse Stimulator	Grass Tech.	S48	Tension stimulation
Vannas spring scissors	WPI	14003	General surgery
Solutions and Media			
<i>Lactated Ringer's solution</i>			
100 mM NaCl 30 mM CH₃CH(OH)COONa (sodium lactate) 4 mM KCl 1 mM CaCl₂ 2H₂O (calcium chloride dihydrate) - adjust pH to 6.75			
<i>Krebs Henseleit solution</i>			
118 mM NaCl 4.7 mM KCl 1.25 mM CaCl₂ 1.2 mM MgCl₂ 1.2 mM KH₂PO₄ 25 mM NaHCO₃ 11 mM glucose - adjust pH to 7.2-7.4 by equilibrating with O₂/CO₂ (95%/5%) gas			
<i>Pentobarbital</i>			
5 mg/ mL working solution in sterile water			