

Materials List for:

In Vivo Evaluation of the Mechanical and Viscoelastic Properties of the Rat Tongue

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Materials

Name	Company	Catalog Number	Comments
SurgiSuite (heated Surgical tray)	Kent Scientific	SurgiSuite-LG	Includes heated platform
LED Lighting and Magnification Kit	Kent Scientific	SURGI- 5003	
RC ² Rodent Circuit Controller	VetEquip	922100	
Isoflurane	Butler Schein Animal Health Supply	29405	
Alcohol Prep	Webcol	6818	
Cotton-tipped applicators	MediChoice	WOD1002	
Hair clipper	Conair		
Hair remover lotion	Nair		
Medical tape	Transpore	3M	
D-PBS	Corning	21-030-CM	
Operating Scissors	World Precision Instruments	503717-12	
Hemostatic Forceps	Merit	97-458	Any tissue forceps can be used instead
Microdissecting Forceps, Angled, Serrated, 10.2 cm, SS	World Precision Instruments	504479	
Suture Tying Forceps	Fine Science Tools	18025-10	
Blunt Micro Hook	Fine Science Tools	10062-12	
Microhemostat	Fine Science Tools	12075-14	
Thermal cautery	WPI	501292	Disposable cauteries are available at lower cost
IV 14g x 3.25" cannula	BD	B-D382268H	For tracheal cannulation
Braided silk non-absorbable suture size 4-0	Harvard Apparatus	SP104	For stabilization of the tracheal cannula
Braided non-absorbable silk 5/0 suture	Surgik LC, USA	ESILRC15387550	For suturing the tongue
Plastic-coated metal twist-tie (or electrical wire)			For securing the rat's nose to the platform
Camera stick			
3 way-swivel and Trilene 9 Kg test monofilament line	Berkley		For securing the jaw and maintaining the mouth open
Camera stick with adjustable angle			For supporting the 3 way-swivel and maintaining the mouth open.
<i>in situ</i> Muscle Test System	Aurora Scientific	809C	This system is designed for mice and was modified by extending

			the platform. Alternatively the rat-specific 806D system can be used.
Dual-Mode Muscle lever (force transducer)	Aurora Scientific	305C-LR	309C offers higher excursion capabilities than 305C-LR. Link for more information and specifications: http://aurorascientific.com/products/muscle-physiology/dual-mode-muscle-levers/
Needle Electrodes (surgical steel, 29 gauge)	AD Instruments	MLA1204	300C is recommended for use in mice.
Magnetic Stands	World Precision Instruments	M10	Used for making the bipolar stimulating hook electrodes
Kite Manual Micromanipulator	World Precision Instruments	KITE-R and KITE-L	Require a steel plate
Stackable Double Binding Post with Banana Jack x BNC Jack	McMaster Carr	6704K13	
Carbon fiber composites digital caliper	VWR	36934-152	