

Stimulated Single Fiber Electromyography (SFEMG) for Assessing Neuromuscular Junction Transmission in Rodent Models

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Materials

Name	Company	Catalog Number	Comments
27 G Reusable Single Fiber Needle Electrode	Technomed	202860-000	singlefiber recording electrode
2 mL Glass Syringe	Kent Scientific Corporation	SOMNO-2ML	
Detachable Cable	Technomed	202845-0000	to connect the recorder electrode to the electrodiagnostic machine
Disposable 2" x 2" disc electrode with leads	Cadwell	302290-000	ground electrode
disposable monopolar needles 28 G	Technomed	202270-000	cathode and anode stimulating electrodes
EMG needle cable (Amp/stim switch box)	Cadwell	190266-200	to connect monopolar electrodes to electrodiagnostic stimulator
Helping Hands alligator clip with iron base	Radio Shack	64-079	Maintaining recording electrode placement
Isoflurane (250 mL bottle)	Piramal Healthcare	NA	
monoject curved tip irrigating syringe	Covidien	81412012	utilized for application of electrode gel
PhysioSuite Physiological Monitoring System with RightTemp Homeothermic Warming	Kent Scientific Corporation	PS-RT	Includes infrared warming pad, rectal probe, and pad temperature probe
Pro trimmer Pet Grooming Kit	Oster	078577-010-003	clippers for hair removal
Rat Endotracheal Tubes (16 G)	Kent Scientific Corporation		
Rocoronium Bromide	Sigma	PHR2397-500MG	neuromuscular blocker agent
Sierra Summit EMG system	Cadwell Industries, Inc., Kennewick, WA	NA	portable electrodiagnostic system
SomnoSuite Low-Flow Digital Anesthesia System	Kent Scientific Corporation	SOMNO	Includes anti-spill, anti-vapor bottle top adapter; Y adapter tubing; charcoal scavenging filter
Veterinarian petroleum-based ophthalmic ointment	Puralube	26870	applied during anesthesia to avoid corneal injury