

Materials List for:

Measuring Neuromuscular Junction Functionality

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URL: <https://www.jove.com/video/55227>

DOI: [doi:10.3791/55227](https://doi.org/10.3791/55227)

Materials

| Name | Company | Catalog Number | Comments |
|------------------------------------|------------------------|--------------------|-----------------------------------|
| Dual-Mode Lever System | Aurora Scientific Inc. | 300B | actuator/transducer |
| High-Power Bi-Phase Stimulator | Aurora Scientific Inc. | 701B | pulse stimulator (nerve) |
| High-Power Bi-Phase Stimulator | Aurora Scientific Inc. | 701C | pulse stimulator (muscle) |
| In vitro Muscle Apparatus | Aurora Scientific Inc. | 800A | |
| Preparatory tissue bath | Radnoti | 158400 | |
| Monopolar Suction Electrode | A-M Systems | 573000 | with a home-made reference |
| Oscilloscope | Tektronix | TDS2014 | |
| Stereomicroscope | Nikon | SMZ 800 | |
| Cold light illuminator | Photonic Optics | PL 3000 | |
| Acquisition board | National Instruments | NI PCIe-6353 | |
| Connector block | National Instruments | NI 2110 | |
| Personal computer | AMD Phenom II x4 970 | | Processor 3.50 Ghz with Windows 7 |
| LabView 2012 software | National Instruments | | |
| Krebs-Ringer Bicarbonate Buffer | Sigma-Aldrich | K4002 | physiological buffer |
| Sodium bicarbonate | Sigma-Aldrich | S5761 | |
| Calcium chloride CaCl ₂ | Sigma-Aldrich | C4901 | anhydrous, powder, ≥97% |
| Buffer HEPES | Sigma-Aldrich | H3375 | ≥99.5% (titration) |
| Dishes 60mm x 15mm | Falcon | 353004 | Polystyrene |
| Silicone | Sylgard | 184 Silicone | Elastomer Kit 0.5Kg. |
| Thermostat | Dennerle | DigitalDuomat 1200 | |
| Pump | Newa Mini | MN 606 | for aquarium |
| Heat resistance Thermocable | Lucky Reptile | 61403-1 | 50/60Hz 50W |
| Bucket | any 10 liters | | Polypropylene |
| O ₂ + 5%CO ₂ | siad | | Mix gas |
| #5 Forceps | Fine Science Tools | 11252-20 | 2 items |
| Spring Scissors - 8 mm Blades | Fine Science Tools | 15024-10 | nerve excision |
| Sharp Scissors | Fine Science Tools | 14059-11 | muscle removal |
| Delicate Scissors | Wagner | 02.06.32 | external of the animal |
| Student Scalpel Handle #3 | Fine Science Tools | 91003-12 | |
| Scalpel Blades #10 | Fine Science Tools | 10010-00 | |
| Scalpel Blades #11 | Fine Science Tools | 10011-00 | |
| nylon wire Ø0.16 mm | any | | |