

Materials List for:

# Fabrication and Implantation of Miniature Dual-element Strain Gages for Measuring *In Vivo* Gastrointestinal Contractions in Rodents.

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URL: <https://www.jove.com/video/51739>

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## Materials

Name	Company	Catalog Number	Comments
Strain gage element	Micro-Measurements (Vishay Product Group)	EA-06-031-350	Linear pattern, foil, stress analysis strain gage (2 required) <a href="http://www.vishaypg.com/micro-measurements/">www.vishaypg.com/micro-measurements/</a> or <a href="http://www.vishaypg.com/docs/11070/031ce.pdf">http://www.vishaypg.com/docs/11070/031ce.pdf</a>
Epoxy-phenolic adhesive	M-bond 610	General purpose adhesive for bonding strain gage elements	<a href="http://www.vishaypg.com/docs/11024/wirecable.pdf">http://www.vishaypg.com/docs/11024/wirecable.pdf</a>
3 conductor insulated wire	336-FTE	Fine gage, flexible general purpose wire	<a href="http://www.vishaypg.com/docs/11024/wirecable.pdf">http://www.vishaypg.com/docs/11024/wirecable.pdf</a>
Flux and rosin solvent kit	FAR-2 M-Flux AR kit	Liquid solder flux	<a href="http://www.vishaypg.com/docs/11023/soldacce.pdf">http://www.vishaypg.com/docs/11023/soldacce.pdf</a>
Solder	361A-20R-25	Optimized and recommended for strain gage applications	<a href="http://www.vishaypg.com/docs/11023/soldacce.pdf">http://www.vishaypg.com/docs/11023/soldacce.pdf</a>
Gold socket connector	PlasticsOne	E363/0	Socket contact for electrode pedestal <a href="http://www.plastics1.com/PCR/Catalog/Item.php?item=407">http://www.plastics1.com/PCR/Catalog/Item.php?item=407</a>
Electrode pedestal	MS363	Secure platform for wire contacts	<a href="http://www.plastics1.com/PCR/Catalog/Item.php?item=499">http://www.plastics1.com/PCR/Catalog/Item.php?item=499</a>
6-wire cable	363 PLUG W/VINYL SL/6	Pre-fabricated vinyl-coated cable (in customized lengths) with plug adaptor to match electrode pedestal and tinned solder lugs on terminal end	
Silicone rubber casting compound	EIS electrical products	Elan Tron E211	Potting medium for gage/wire solder joints <a href="http://www.eis-inc.com">http://www.eis-inc.com</a>
HOTweezers	Meisei Corporation	Model 4B	Wire insulation strippers <a href="http://www.impexron.us">http://www.impexron.us</a>
Soldering station	Weller (Apex Tool Group)	WES 51	High quality soldering equipment <a href="http://www.apexhandtools.com/weller/index.cfm">http://www.apexhandtools.com/weller/index.cfm</a>
Available through <a href="http://www.eis-inc.com">http://www.eis-inc.com</a> or <a href="http://www.amazon.com">http://www.amazon.com</a>			
Silicone sheet	Trelleborg Sealing Solutions Northborough-Life Sciences	Pharmelast 20-20	Encapsulating strain gage elements 10 B Forbes Road Northborough, MA 01532 (800) 634-2000
Amplifier	Experimetria Ltd	AMP-01-SG	<a href="http://experimetria.com/Biological_amplifiers.php">http://experimetria.com/Biological_amplifiers.php</a>