

## Materials List for:

## Spatiotemporal Mapping of Motility in Ex Vivo Preparations of the Intestines

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URL: https://www.jove.com/video/53263

DOI: doi:10.3791/53263

## **Materials**

Name	Company	Catalog Number	Comments
Sodium Chloride (NaCl)	Fisher	BP358	For Krebs buffer.
Potassium Chloride (KCI)	Fisher	BP366	For Krebs buffer.
Potassium Phosphate (KH <sub>2</sub> PO <sub>4</sub> )	Fisher	P285	For Krebs buffer.
Magnesium Sulfate (MgSO <sub>4</sub> )	Sigma	M2643	For Krebs buffer.
Calcium Chloride (CaCl <sub>2</sub> )	Sigma	C7902	For Krebs buffer.
Sodium Bicarbonate (NaHCO <sub>3</sub> )	Fisher	BP328	For Krebs buffer.
Glucose	Sigma	G7021	For Krebs buffer.
Carboxygen (95% O <sub>2</sub> /5% CO <sub>2</sub> )			
Dissecting pins			
Dissecting trays/dishes			
Dunkin Hartley Guinea Pigs	Charles River	Strain 051	
ImageJ		http://imagej.nih.gov/ij/	Freely available online.
GastroIntestinal Motility Monitor (GIMM)	Catamount Inc., St. Albans, Vermont		Includes parts listed below.
Peristaltic Pumps			Included with GIMM.
Bath Cameras			Included with GIMM.
Bath TransIllumination Backlights			Included with GIMM.
Organ Baths			Included with GIMM.
Backlight Intensity Controls			Included with GIMM.
GIMM Processor ImageJ Plugin			Included with GIMM.
Polyethylene Tubing			Included with GIMM.
Tubing Connectors			Included with GIMM.
Masterflex tubing for Peristaltic Pumps			Included with GIMM.
Heating Bath/Water Circulator			Included with GIMM.

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