

Materials List for:

# Mechanisms Underlying Gut Hormone Secretion Using the Isolated Perfused Rat Small Intestine

Rune E. Kuhre<sup>1</sup>, Jens J. Holst<sup>1</sup>

<sup>1</sup>Department of Biomedical Sciences and NNF Centre for Basic Metabolic Research, the Panum Institute, University of Copenhagen

Correspondence to: Rune E. Kuhre at [kuhre@sund.ku.dk](mailto:kuhre@sund.ku.dk)

URL: <https://www.jove.com/video/58533>

DOI: [doi:10.3791/58533](https://doi.org/10.3791/58533)

## Materials

Name	Company	Catalog Number	Comments
<i>Chemicals for perfusion buffer</i>			
Bovine serum albumin (BSA)	Merck	1.12018.0500	
Calcium chloride dihydrate (CaCl <sub>2</sub> x 2 H <sub>2</sub> O)	Merck	102382	
Dextran 70	Pharmacosmos	40014	
Fumaric acid disodium salt (C <sub>4</sub> H <sub>2</sub> Na <sub>2</sub> O <sub>4</sub> )	Sigma Aldrich	F9642	
Glucose (C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> )	Merck	108342	
Magnesium sulfate heptahydrate (MgSO <sub>4</sub> )	Merck	105886	
Potassium chloride (KCl)	Merck	104936	
Potassium dihydrogen phosphate (KH <sub>2</sub> PO <sub>4</sub> )	Merck	104873	
Pyruvic acid sodium salt (C <sub>3</sub> H <sub>3</sub> NaO <sub>4</sub> )	Merck	106619	
Sodium bicarbonate (NaHCO <sub>3</sub> )	Merck		
Sodium chloride (NaCl)	Merck	106404	
Sodium L-glutamate monohydrate (C <sub>5</sub> H <sub>8</sub> NNaO <sub>4</sub> x H <sub>2</sub> O)	Merck	106445	
Name	Company	Catalog Number	Comments
<i>Perfusion equipment</i>			
Universal perfusion system	Harvard Bioscience, Inc.	732316	
BASIC UNIT UNIPER UP-100, TYPE 834	Harvard Bioscience, Inc.		
Roller Pump, with four channels	Harvard Bioscience, Inc.	730100	
Windkessel	Harvard Bioscience, Inc.	732068	
Thermostatic Circulator, Bath Volume 3L, 230V/50Hz	Harvard Bioscience, Inc.	730125	
Operating table, heated on tripod stand, type 873	Harvard Bioscience, Inc.	733776	
Cannula with basked, OD= 2.0mm, ID= 1.0mm	Harvard Bioscience, Inc.	733313	