

Materials List for:

# Method of Direct Segmental Intra-hepatic Delivery Using a Rat Liver Hilar Clamp Model

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## Materials

Name	Company	Catalog Number	Comments
Sprague-Dawley Rat	Harlan Sprague Dawley Inc.	200- 250 grams	
Surgical Microscope	Leica	M500-N w/ OHS	
Charcoal Canisters	Kent Scientific	SOMNO-2001-8	
Isoflurane Molecular Weight 184.5	Piramal Healthcare		
Pressure-Lok Precision Analytical Syringe	Valco Instruments Co, Inc.	SOMNO-10ML	
Electrosurgical Unit	Macan	MV-7A	
Warming Pad	Braintree Scientific	HHP2	
SomnoSuite Small Animal Anesthesia System	Kent Scientific	SS-MVG-Module	
PhysioSuite	Kent Scientific	PS-MSTAT-RT	
Isoflurane chamber	Kent Scientific	SOMNO-0530LG	
SurgiVet	Isotec	CDS 9000 Tabletop	
Oxygen	Praxair	98015	
27-0 Micro-Cannula	Braintree Scientific	MC-28	
Rib retractors	Kent Scientific	INS600240	
Polyethylene Glycol - Superoxide Dismutase (PEG-SOD)	Sigma Aldrich	S9549 SIGMA	
GenieTouch	Kent Scientific		
Normal Saline	Baxter	NDC 0338-0048-04	
4 x 4 Non-Woven Sponges	Criterion	104-2411	
Sterile Q-Tips	Henry Schein Animal Health	1009175	
U-100 27 Gauge Insulin Syringe	Terumo	22-272328	
5 mL Syringe	BD	REF 309603	
4-0 Braided Silk Suture	Deknatel, Inc.	198737LP	
7-0 Braided Silk Suture	Teleflex Medical	REF 103-S	
1.8 mL Arcticle Cryogenic Tube	USA Scientific	1418-7410	
<b>Microsurgical Instruments</b>			
Name	Company	Catalog Number	Comments
Small Scissors	Roboz	RS-5610	
Large Scissors	S&T	SAA-15	
Forceps - Large Angled	S&T	JFCL-7	
Forceps - Small Angled	S&T	FRAS-15 RM-8	
Clip Applier	ROBOZ	RS-5440	

Scissors - non micro	FST 14958-11	14958-11	
Forceps - Straight Tip	S&T	FRS-15 RM8TC	
Large Microsurgical Clip	Fine Scientific Tools	18055-01	
Small Microsurgical Clip	Fine Scientific Tools	18055-01	
Small Microsurgical Clip	Fine Scientific Tools	18055-02	
Small Microsurgical Clip	Fine Scientific Tools	18055-03	
<b>Other Instruments</b>			
<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>
Small Mosquito Clamps	Generic		
<b>Analysis</b>			
<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>
Alannine aminotransferase (ALT) assay	Biovision	K752-100	
Malondialdehyde (MDA) assay	Abcam	ab118970	
Glutathione (GSH) assay	Cayman Chemical	7030002	
Antibodies - Cleaved Caspase-3 and Actin	Cell Signaling Tecnology	Antibody 9661	
ImageJ Software	National Institutes of Health		
RIPA Lysis and Extraction Buffer	Millipore	10-188	