

**Materials List for:**

**A Small Animal Model Of *Ex Vivo* Normothermic Liver Perfusion**

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**Materials**

| Name                                      | Company                          | Catalog Number    | Comments |
|---|----------------------------------|-------------------|----------|
| <b>Perfusate</b>                          |                                  |                   |          |
| 8% Albumin                                | CLS Behring, King of Prussia, PA | 0053-7680-32      |          |
| Williams Media                            | Sigma Aldrich, St. Louis, MO     | W1878             |          |
| Penicillin/Streptomycin                   | Sigma Aldrich, St. Louis, MO     | P4333             |          |
| Insulin                                   | Eli Lilly, Indianapolis, IL      | 0002-8215-91      |          |
| Heparin                                   | Fresenius Lab, Lake Zurich, IL   | C504701           |          |
| L-glutamine                               | Sigma Aldrich, St. Louis, MO     | G3126             |          |
| Hydrocortisone                            | Sigma Aldrich, St. Louis, MO     | H0888             |          |
| THAM                                      | Hospira, Inc,                    | 0409-1593-04      |          |
| Polyethylene Glycol - Catalase            | Sigma Aldrich                    | S9549 SIGMA       |          |
| <b>Personal Protective Equipment</b>      |                                  |                   |          |
| Surgical Mask                             | Generic                          | N/A               |          |
| Protective Gown                           | Generic                          | N/A               |          |
| Surgical Gloves                           | Generic                          | N/A               |          |
| <b>Liver Procurement</b>                  |                                  |                   |          |
| Sprague-Dawley Rat                        | Harlan Sprague Dawley Inc.       | 250 -350 grams    |          |
| Surgical Microscope                       | Leica                            | M500-N w/ OHS     |          |
| Charcoal Canisters                        | Kent Scientific                  | SOMNO-2001-8      |          |
| Isoflurane                                | Piramal Healthcare               | N/A               |          |
| 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             |          |
| Rib retractors                            | Kent Scientific                  | INS600240         |          |
| GenieTouch                                | Kent Scientific                  | GenieTouch        |          |
| Normal Saline                             | Baxter                           | NDC 0338-0048-04  |          |

|   |                            |              |  |
|---|----------------------------|--------------|--|
| 4x4 Non-Woven Sponges   | Criterion                  | 104-2411     |  |
| Sterile Q-Tips  | Henry Schein Animal Health | 1009175      |  |
| U-100 27 Gauge Insulin Syringe  | Terumo                     | 22-272328    |  |
| 5mL Syringe   | BD                         | REF 309603   |  |
| 4-0 Braided Silk Suture   | Deknatel, Inc.             | 198737LP     |  |
| 7-0 Braided Silk Suture   | Teleflex Medical           | REF 103-S    |  |
| 16 gauge Catheters  | BBraun Introcath Safety    | 4252586-02   |  |
| 14 gauge Catheters  | BBraun Introcath Safety    | 4251717-02   |  |
| Bile Duct Cannular Tubing   | Altec                      | 01-96-1727   |  |
| <b>Liver Perfusion Circuit Components</b>                                   |                            |              |  |
| Water Bath Warmer   | Lauda Ecoline Staredition  | E103         |  |
| Data Collection Software  | ADInstruments              | Labchart 7   |  |
| Liver Perfusion Circuit   | Harvard Apparatus          | 73-2901      |  |
| Membrane Oxygenator   | Mediac SPA                 | M03069       |  |
| Roller Pump   | Ismatec                    | ISM827B      |  |
| Gas (95% oxygen and 5% carbon dioxide)                                      | Praxair                    | 98015        |  |
| Organ Chamber   | Harvard Apparatus          | ILP-2        |  |
| 1.8 mL Arcticle Cryogenic Tube  | USA Scientific             | 1418-7410    |  |
| Mucosol   | Sigma-Aldrich              | Z637181      |  |
| <b>Microsurgical Instruments</b>  |                            |              |  |
| 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     |  |
| Small Mosquito Clamps   | Generic                    | N/A          |  |
| <b>Post-Experiment Analysis</b>   |                            |              |  |
| Alanine Aminotransferase (ALT) Activity Colorimetric/Fluorometric Assay Kit | BioVision                  | K752         |  |
| Adenosine Triphosphate (ATP) Colorimetric/Fluorometric Assay Kit            | BioVision                  | K354         |  |
| Glutathione Assay Kit   | Cayman Chemical            | 703002       |  |
| Lipid Peroxidation (MDA) Assay Kit  | Abcam                      | ab118970     |  |
| Caspase-Glo 3/7 Assay Systems   | Promega                    | G8090        |  |
| POLARstar OMEGA Microplate Reader   | BMG LABTECH                | N/A          |  |