

Materials List for:

# An Ex Vivo Method for Time-Lapse Imaging of Cultured Rat Mesenteric Microvascular Networks

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URL: <https://www.jove.com/video/55183>

DOI: [doi:10.3791/55183](https://doi.org/10.3791/55183)

## Materials

| Name                                     | Company  | Catalog Number | Comments   |
|--|--|----------------|--|
| Drape                                    | Cardinal Health  | 4012           | 12" x 12" Bio-Shield Regular Sterilization Wraps   |
| Scalpel Handle                           | Roboz Surgical Instrument  | RS-9843        | Scalpel Handle, #3; Solid; 4" Length   |
| Sterile Surgical Blade                   | Cincinnati Surgical  | 0110           | Stainless Steel; Size 10   |
| Culture Dish (60 mm)                     | Thermo Scientific  | 130181         | 10/Sleeve  |
| Graefe Forcep (curved tweezers)          | Roboz Surgical Instrument  | RS-5135        | Micro Dissecting Forceps; Serrated; Slight Curve; 0.8 mm Tip Width; 4" Length  |
| Graefe Forcep (straight tweezers)        | Roboz Surgical Instrument  | RS-5130        | Micro Dissecting Forceps; Serrated, Straight; 0.8 mm Tip Width; 4" Length  |
| Noyes Micro Scissor                      | Roboz Surgical Instrument  | RS-5677        | Noyes Micro Dissecting Spring Scissors; Straight, Sharp-Blunt Points; 13 mm Cutting Edge; 0.25 mm Tip Width, 4 1/2" Overall Length |
| Gauze Pads                               | FisherBrand  | 13-761-52      | Non-Sterile Cotton Gauze Sponges; 4" x 4" 12-Ply   |
| Cotton-Tipped Applicators                | FisherBrand  | 23-400-124     | 6" Length; Wooden Shaft; Single Use Only   |
| 6-Well Plate                             | Fisher Scientific  | 08-772-49      | Flat Bottom with Low Evaporation Lid; Polystyrene; Non-Pyrogenic   |
| Sterile Syringe 5 mL                     | Fisher Scientific  | 14-829-45      | Luer-Lok Tip   |
| Sterile Bowl                             | Medical Action Industries Inc.   | 01232          | 32 oz. Peel Pouch; Blue; Sterile Single Use  |
| 6-Well Plate Inserts (CellCrown Inserts) | SIGMA  | Z681792-3EA    | 6-Well Plate Inserts; Non-Sterile  |
| Polycarbonate Filter Membrane            | SIGMA  | TMTPO4700      | Isopore Membrane Filter; Polycarbonate; Hydrophilic; 5.0 µm, 47 mm, White Plain  |
| Name                                     | Company  | Catalog Number | Comments/Description   |
| Beuthanasia                              | Schering-Plough Animal Health Corp. Union (Ordered from MWI Veterinary Supply) | MWI #: 011168  | Active Ingredient: Per 100 mL, 390 mg pentobarbital sodium, 50 mg phenytoin sodium   |
| Ketamine                                 | Fort Dodge Animal Health (Ordered from MWI Veterinary Supply)                  | MWI #: 000680  | Kateset 100 mg/mL  |
| Xylazine                                 | LLOYD. Inc. (Ordered from MWI Veterinary Supply)                               | MWI #: 000680  | Anased 100 mg/mL   |
| Saline                                   | Baxter   | 2F7122         |  |

|  |                        |             |  |
|--|------------------------|-------------|--|
| PBS  | Invitrogen             | 14040-133   |  |
| MEM  | Invitrogen             | 11095080    |  |
| PenStrep   | Invitrogen             | 15140-122   |  |
| FBS  | Invitrogen             | 16000-044   |  |
| BSA  | Jackson ImmunoResearch | 001-000-162 |  |
| Saponin  | SIGMA                  | S7900-100G  |  |
| Isopropyl Alcohol  | Fisher Scientific      | S25372      |  |
| Povidone-Iodine  | Operand                | 82-226      |  |
| Hydrochloric Acid  | SIGMA                  | 320331      |  |
| Methanol   | Fisher Scientific      | 67-56-1     |  |
| Glycerol   | Fisher Scientific      | 56-81-5     |  |
| FITC-conjugated Lectin                                     | SIGMA                  | L9381-2MG   |  |
| Anti-NG2 Chondroitin Sulfate<br>Proteoglycan Antibody      | SIGMA                  | AB5320      |  |
| PECAM (CD31) Antibody                                      | BD Biosciences         | 555026      |  |
| LYVE-1 Antibody  | AngioBio Co.           | 11-034      |  |
| Goat Anti-Rabbit Cy2-conjugated<br>Antibody                | Jackson ImmunoResearch | 111-585-144 |  |
| Goat Anti-Mouse Cy3-conjugated<br>Antibody                 | Jackson ImmunoResearch | 115-227-003 |  |
| Streptavidin Cy3-conjugated<br>Antibody                    | Jackson ImmunoResearch | 016-160-084 |  |
| Live/Dead Viability/Cytotoxicity Kit                       | Invitrogen             | L3224       |  |
| Normal Goat Serum  | Jackson ImmunoResearch | 005-000-121 |  |
| 5-Bromo-2'-Deoxyuridine                                    | SIGMA                  | B5002       |  |
| Monoclonal Mouse Anti-<br>Bromodeoxyuridine<br>Clone Bu20a | Dako                   | M074401-8   |  |
| Mouse Anti-Rat CD11b                                       | AbD Serotec            | MCA275R     |  |