

Materials List for:

# Procedure for Decellularization of Rat Livers in an Oscillating-pressure Perfusion Device

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## Materials

| Name                                   | Company                                 | Catalog Number     | Comments                 |
|--|---|--------------------|--------------------------|
| Self built arterial cannula            |   |                    |                          |
| Portex Non Sterile Polyethylene Tubing | SIMS Portex                             | REF 800/110/100    | 0.28 mm ID 0.61 mm OD    |
| Portex Non Sterile Polyethylene Tubing | SIMS Portex                             | REF 800/110/200    | 0.58 mm ID 0.96 mm OD    |
| Venodrop Safe butterfly catheter       | Fresenius Kabi                          | 3275851            | 21 G                     |
| portal vein cannula                    |   |                    |                          |
| Periphereal Venous Catheter            | BD                                      | 393224             | BD Venflon Pro 20G       |
| Three-way stopcock                     | smiths medical                          | 888-101RE          |                          |
| surgery                                |   |                    |                          |
| Cotton Sticks                          | Hecht-Assistent                         | 4302               |                          |
| Cotton Pads                            | Shaoxing Zhengde Surgical dressing      | 13H118-03          |                          |
| Gauze Bandage                          | Hubei Haige Medical Instruments         | 14388              |                          |
| Ringer Solution                        | Fresenius Kabi                          | 13 HKP022          | 1000 ml                  |
| 10 ml Syringe                          | Braun                                   | 4606108V           | 10 ml/ Luer Solo         |
| 5 ml Syringe                           | Braun                                   | 4606061V           | 5 ml /Luer Solo          |
| Suture (Silk 6/0)                      | Resorba                                 | H1F                | LOT 105001.81            |
| medical drape                          | Shaoxing Zhengde Surgical dressing      | D0613011           |                          |
| surgical instruments                   |   |                    |                          |
| needle holder                          | Geuder                                  | 17570              |                          |
| micro-forceps                          | Inox-Electronic                         | 91150-20           |                          |
| micro-scissors                         | Martin                                  | 11-740-11          |                          |
| micro-forceps                          | S&T                                     | 112314             |                          |
| Clamp                                  | Aesculap                                | BH111R             |                          |
| scissors                               | F S T                                   | 14501-14           |                          |
| surgical forceps                       | Aesculap                                | BD 557             |                          |
| Decellularisation                      |   |                    |                          |
| Respirator                             | Resmed                                  | 14.24.11.0004      | SmartAIR ST              |
| Perfusion Device                       | Charite, medical engineering laboratory | custom-made device | decellularisation device |
| peristaltic pump ismatec reglo ICC     | IDEX                                    | ISM4408            | 4-channel                |
| heidelberg extension 75 cm             | Fresenius Kabi                          | 2873               | 75 cm                    |
| MS/CA pump-segment                     | IDEX                                    | IS 3510            | MS/CA/click'n'go/POM-C   |

|                          |               |                   |        |
|--------------------------|---------------|-------------------|--------|
| CA 2-stopper tube        | Pharmed       | BPT NSF-51        |        |
| bubble trap              |               | custome-made item |        |
| Luer Lock hose connector | Neolab        | No. 02-1887       |        |
| Detergents               |               |                   |        |
| SDS pellets              | Carl Roth     | CN30.4            | 2.5 kg |
| Triton X-100             | Carl Roth     | 3051.1            | 10 L   |
| PBS                      | Gibco         | 14190-094         | DPBS   |
| staining                 |               |                   |        |
| Eosin 1%                 | Morphisto     | 10177             |        |
| Mayer hematoxylin        | AppliChem     | A4840             |        |
| gomori staining          | Morphisto     | 11104             |        |
| AlcainBlue-PAS staining  | Morphisto     | 11388             |        |
| Direct Red 80            | Sigma Aldrich | 365548            |        |