**Materials List for:**

# Protocol for Relative Hydrodynamic Assessment of Tri-leaflet Polymer Valves

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## Materials

| Name | Company | Catalog Number | Comments |
|---|---|---|---|
| Pump | ViVitro Labs | | http://vivitrolabs.com/products/superpump/ |
| Flow Meter and Probe | Carolina Medical | Model 501D | http://www.carolinamedicalelectronics.com/documents/FM501.pdf |
| Pressure Transducer | ViVitro Labs | HCM018 | |
| ViVitro Pressure Measuring Assembly | ViVitro Labs | 6186 | |
| Valve holder | WB Engineering | | Designed by Florida International University. Manufactured by WB Engineering |
| Pulse Duplicator | ViVitro Labs | PD2010 | http://vivitrolabs.com/wp-content/uploads/Pulse-Duplicator-Accessories1.pdf |
| Pulse Duplicator Data Acquisition and Control System, including ViViTest Software | ViVitro Labs | PDA2010 | http://vivitrolabs.com/products/software-daq |
| Porcine Hearts and Native Aortic Valves | Mary's Ranch Inc | | |
| Bi-leaflet Mechanical Valves | Saint Jude Medical | | http://www.sjm.com/ |
| High Vacuum Grease | Dow Corning Corporation | | http://www1.dowcorning.com/DataFiles/090007b281afed0e.pdf |
| Glycerin | McMaster-Carr | 3190K293 | 99% Natural 5 gal |
| Phosphate Buffered Saline (PBS) | Fisher Scientific | MT21031CV | 100 ml/heart |
| Antimycotic/Antibiotic Solution | Fisher Scientific | SV3007901 | 1 ml in 100 ml of PBS/heart; 20 ml for ViVitro System |
| NaCl | Sigma-Aldrich | S3014-500G | 9 g/L of deionized water |
| Deionized Water | EMD Millipore Chemicals | | Millipore Deionized Purification System. 1.3 L for ViVitro System, 200 ml for heart valve dissection process |

 