

Materials List for:

A Cost-effective and Reliable Method to Predict Mechanical Stress in Single-use and Standard Pumps

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Materials

Name	Company	Catalog Number	Comments
CCD camera	Allied Vision Technologies GmbH	GX2750	Equipment for inline endoscopy
C-Flex Biopharmaceutical Tubing	Saint-Gobain Performance Plastics	374-375-4	Tube Select a tubing length of about 45 cm before the pump.
C-Flex Biopharmaceutical Tubing	Saint-Gobain Performance Plastics	374-375-3	Tube Select a tubing length of about 45 cm after the pump and clamp on the flow sensor to this tubing.
CLAVE Connector	Victus	011-C2000	Sampling port
Controller LPC-200.1-02	Levitronix GmbH	100-30030	PuraLev 200MU controller
Controller LPC-600.1-02	Levitronix GmbH	100-30033	PuraLev 600MU controller
LeviFlow Clamp-On Sensor LFSC-12	Levitronix GmbH	100-30329	Flow sensor for flow rates below 5 L min ⁻¹
LeviFlow Converter LFC-1C-CS	Levitronix GmbH	100-30328	Flow sensor output device
Masterflex I/P Easy Load	Fisher Scientific AG	EW-77963-10	Peristaltic pump
Mitos free flow valve	Parker Hannifin Europe Sàrl	FFLQR16S6S6AM	Valve
Mobil Eal Arctic	Exxon Mobil Corporation	Mobil EAL Arctic 22	Oil Prepare the emulsion directly before the experiment.
Motor	Elektromotorenwerk Brienz AG	7WAC72N4THTF	Motor for agitator shaft
Motor BSM-1.4	Levitronix GmbH	100-10005	PuraLev 200MU motor
Motor LPM-600.4	Levitronix GmbH	100-10038	PuraLev 600MU motor
Norm-Ject 10 ml Luer Lock	Restek Corporation	22775	Syringe
Pump Head LPP-200.5	Levitronix GmbH	100-90525	PuraLev 200MU pump head
Pump Head LPP-600.18	Levitronix GmbH	100-90548	PuraLev 600MU pump head
Quattroflow 1200-SU	Almatechnik AG	QF 1200	4-piston diaphragm pump
SciPres Sensor	SciLog	080-695PSX	Pressure sensor
SciPres Sensor Monitor	SciLog	080-690	Pressure sensor output device
SOPAT-VF Inline Endoscopic Probe	SOPAT GmbH		Inline endoscopy
Stroboscope	Drello GmbH & Co KG	Drelloscop 255-01	Equipment for inline endoscopy
Triton X-100	Sigma-Aldrich	X100	Surfactant Handle with gloves and goggles. (acute toxicity, eye irritation)