

Invoice: Lung Bioreactor Parts List

Distributor ¹	Part #	Item Description	Price per Unit	Quantity	Total Price
Qosina	91030	Check Valves: Ensure one-way flow through tubing complex and allow one-way pressure release from chamber	\$2.532	40	\$101.28
Cole Parmer	EW-06361-73	Panel Mount Connectors: Easy access port between chambers and the outside	\$15.50	25	\$387.50
Cole Parmer	EW-06438-10	Benchtop Tubing Cutter: Cut tubes smoothly to ensure no leaks at connections	\$12.60	1	\$12.60
Sparkfun Electronics	DEV-09950	Arduino Uno: Control all systems – pump, sensors, heating elements	\$29.95	5	\$149.75
Digi-Key	438-1045-ND	Solderless Breadboard	\$8.98	3	\$26.94
Cole Parmer	EW-77411-00	Pump: Pump for positive pressure through PA and PV	\$2,445.00	1	\$2,445.00
Cole Parmer	EW-77601-10	Pump Heads: One pump head for each PA/PV	\$610.00	2	\$1,220.00
Cole Parmer	EW-77601-96	Mounting Hardware for 2 Pump-Heads	\$30.00	1	\$30.00
Cole Parmer	EW-77300-32	Control Cable: Cable to connect to back of pump	\$110.00	2	\$220.00
Omega	FLR-1012-ST	Fluid Flow Sensor: Confirm fluid flow rate into and out of trachea	\$550.00	4	\$2,200.00
Cole Parmer	EW-95501-06	Polyethylene Tubing (1/4" ID x 3/8" OD): Tubing to connect to compression fittings	\$29.00	1	\$29.00
Cole Parmer	EW-34030-97	Compression to Threading Adapter (3/8" x 3/8"): Connect from Polyethylene tubing to threading	\$12.50	1	\$12.50
Cole Parmer	EW-30610-42	Male Threading to Barb Adapter (3/8" x 3/8"): Connect to our tubing	\$10.00	1	\$10.00
Cole Parmer	EW-32884-00	Temperature Sensor: Confirm temperature at all fluid inlets	\$296.00	4	\$1,184.00
Cole Parmer	EW-30703-77	T-Fitting (3/8" ID) (10 pk): Place Temp. and Pressure sensors inline	\$32.00	1	\$32.00
Cole Parmer	EW-31702-22	Threading to Barb Adapter (1/4 NPT to 3/8" ID) (10 pk): Connect Temp. and Pressure Sensors inline	\$15.25	2	\$30.50
Omega		Pressure Sensor	\$215.00	6	\$1,290.00
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				TOTAL:	\$10,881.07

¹Company Contacts:

Cole Parmer	Omega Engineering	Qosina	Sparkfun	Digi-Key
ColeParmer.com	Omega.com	Qosina.com	Sparkfun.com	Digikey.com
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