

**Materials List for:**

# Measurement of the Pressure-volume Curve in Mouse Lungs

Nathachit Limjunyawong<sup>1</sup>, Jonathan Fallica<sup>1</sup>, Maureen R. Horton<sup>1</sup>, Wayne Mitzner<sup>1</sup>

<sup>1</sup>Environmental Health Sciences, Bloomberg School of Public Health, Johns Hopkins University

Correspondence to: Wayne Mitzner at [wmitzner@jhsph.edu](mailto:wmitzner@jhsph.edu)

URL: <https://www.jove.com/video/52376>

DOI: [doi:10.3791/52376](https://doi.org/10.3791/52376)

## Materials

Name	Company	Catalog Number	Comments
Syringe pump	Harvard Apparatus	55-2226	Infuse/withdraw syringe pump
Pump 22 reversing switch	Harvard Apparatus	552217	Included with pump
Linear displacement transformer	Trans-Tek, Inc.	0244-0000	
5 ml glass syringe	Becton Dickenson		Several other possible vendors
Digital recorder	ADInstruments	PL3504	Several other possible vendors
Bridge amp signal conditioner	ADInstruments	FE221	
Gas tank, 100% oxygen	Airgas, Inc		Any supplier or hospital source will work
Pressure transducer: 0 - 1 psi mV output	Omega Engineering	PX-137	Range ≈ 0 - 60 cm H <sub>2</sub> O