

Materials List for:

Measuring Respiratory Function in Mice Using Unrestrained Whole-body Plethysmography

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Materials

Name	Company	Catalog Number	Comments
LabChart 7 software (for Macintosh)	ADINSTRUMENTS	MLU60/7	used in protocol step 4
PowerLab 8/30 (model ML870)	ADINSTRUMENTS	PL3508	
Octal Bridge Amp (model ML228)	ADINSTRUMENTS	FE228	
Black BNC to BNC cable (1 m)	ADINSTRUMENTS	MLAC01	
Macintosh OS	Apple Inc.		Mac OS X 10.4 or later
Surgipack Digital Rectal Thermometer	Vega Technologies	MT-918	
Grass volumetric pressure transducer PT5A	Grass Instruments Co.	Model number PT5A; serial No. L302P4.	
1 ml Syringe	Becton Dickinson (BD)	309628	
5 ml Serological syringe pipettes	Greiner Bio One	606160	Connected via plastic tubing
Balance/Scales	VWR International, Pty Ltd	SHIMAUW220D	Any weighing balance with of 0.1 gram resolution
HM40 Humidity & temperature meter	Vaisala	HM40A1AB	
Barometer	Barometer World	1586	
Laboratory tubing	Dow Corning	508-101	Used to connect water column to the syringe and pressure transducer
Cylindrical Perspex Chamber	Dynalab Corp.		Custom built cylindrical chamber with internal dimensions as follows: 50 mm(w) x 1,500 mm(l). There are two lids for each side, with dimensions 80 mm(l) x 80 mm(w). Each lid has a 60 mm wide circular hole cut on the face of the lid 50 mm deep. This allows the chamber to fit into the lid. A rubber ring is fitted around each hole of the lid where the chamber will fit. For attachment of syringe and pressure transducer, the openings are 5 mm in diameter. For attachment of humidity probe, the openings are 25 mm in diameter.
80% Ethanol (4 L)	VWR International, Pty Ltd	BDH1162-4LP	