

Materials List for:

# A New Portable *In Vitro* Exposure Cassette for Aerosol Sampling

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## Materials

Name	Company	Catalog Number	Comments
Scanning mobility particle sizer (SMPS)	TSI, Inc.	3910	NanoSMPS
Optical particle sizer (OPS)	TSI, Inc.	3330	
Stainless Steel Pipe, 4" Long	McMaster-Carr	4830K116	Standard-Wall 304/304L, Threaded on Both Ends, 1/8 Pipe Size
Brass Ball Valve with Lever Handle	McMaster-Carr	4112T12	Compact High-Pressure Rating, 1/8 NPT Female
Steel Pipe, 2" Long	McMaster-Carr	7753K121	Standard Wall, Threaded on One End, 1/8 Pipe Size
HEPA filter	GE Healthcare	09-744-12	HEPA-Cap Disposable Air Filtration Capsule
Vacuum Generator	PISCO USA	VCH10-018C	
PIVEC	VCU		For design please contact authors
Resistive heater			
1/4" barbed connectors	Zefon International, Inc.	459743	
Porous tubing	Scientific Commodities, Inc.	BB2062-1814A	Hydrophilic 10 um pores
Battery power bank			
Cell culture insert	Fisherbrand	353095	24 well plate insert
Filter Forceps	Fisherbrand	09-753-50	
Transfer Pipette	ThermoScientific	13-711-27	
Glass Fiber Filters	SKC	225-7	Binder-Free Type AE Filter 37 MM 1.00 um pore
Ultra Micro Balance	A&D	BM-22	Housed in environmental chamber
37 mm filter cassette	SKC	225-3250	Filter Cassette Blank, 37 mm, Clear Styrene
Variable flow vacuum pump	SKC	220-5000TC	AirChek TOUCH, 5 to 5000 mL/min
Copper Particles	U.S. Research Materials, Inc.	US1090	40 nm
Copper Particles	U.S. Research Materials, Inc.	US1088	100 nm
Copper Particles	U.S. Research Materials, Inc.	US1117M	800 nm