

Materials List for:

# A Microcontroller Operated Device for the Generation of Liquid Extracts from Conventional Cigarette Smoke and Electronic Cigarette Aerosol

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## Materials

Name	Company	Catalog Number	Comments
12 V AC/DC Wall Mount Adaptor	Digi-Key	T1099-P5P-ND	
2.2 Ohm Resistors	Digi-Key	A105635-ND	Used in tandem to generate the 4.4 Ohm resistance in Figure 2A
330 Ohm Resistors	Digi-Key	330QBK-ND	
510 Threaded Base	NJoy	N/A	Recovered by dismantling a second generation NJoy electronic cigarette
Acetic Acid, Glacial	Sigma-Aldrich	A6283	
Acetone (Chromatography Grade)	Sigma-Aldrich	34850	
Basic Stamp Project Board	Digi-Key	27112-ND	This board contains the BS1 Microcontroller, serial adaptor, power switch, and a barrel pin connector for the AC/DC Wall Mount Adaptor
Basic Stamp USB to Serial Adapter	Digi-Key	28030-ND	An optional component to allow the BS1 serial adaptor to communicate through USB
Buchner Flask (Vacuum Flask) 250 mL	VWR	10545-854	
Clear Tape	3M	S-9783	
Clear Vinyl Tubing, 3/8" ID	Watts	443064	
EGM-2 Endothelial Cell Culture Medium	Lonza	CC-3162	
Ethanol	Pharmco-Aaper	111000200	
Flow Regulator	Dwyer	VFA-23-BV	
Gas Chromatograph	Varian	450-GC	
Glass Syringe, 10 mL	Sigma-Aldrich	Z314552	
Glass Syringe, 10 µL	Hamilton	80300	
High Vacuum Silicon Grease	Dow Corning	146355D	
Hose Clamp	Precision Brand	35125	
Human Umbilical Vein Endothelial Cells	ATCC	PCS-100-013	
Mass Spectrometer	Varian	300-MS	
Midget Impinger	Chemglass	CG-1820-01	
Neutral Red	Sigma-Aldrich	N4638	
Paraffin Film	3M	PM-992	

Plate Seal Roller	BioRad	MSR0001	
Plate Seal; Foil	Thermo	276014	
Ring Stand 20"	American Educational Products	7-G15-A	
Solenoid Valve (normally open)	US Solid	USS2-00081	
Solid State Relay	Digi-Key	CLA279-ND	
Stand Clamp	Eisco	CH0688	
Syringe Filter, PES, 0.22 um	Millipore	SLGP033RS	
Syringe, 10 mL	BD Syringe	309604	
Through Hole Stopper, Size 6	VWR	59581-287	
Vacuum Pump	KNF Neuberger	N86KTP	