

Materials List for:

# Production and Measurement of Organic Particulate Matter in a Flow Tube Reactor

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URL: <https://www.jove.com/video/55684>

DOI: [doi:10.3791/55684](https://doi.org/10.3791/55684)

## Materials

Name	Company	Catalog Number	Comments
(-)- $\alpha$ -pinene	Sigma-Aldrich	305715	
2-butanol	Sigma-Aldrich	294810	
5.00 mL syringe	Hamilton	201300	
Aerosol particle mass analyzer	Kanomax	3600	
Condensational particle counter	TSI	3022	
Differential mobility analyzer	TSI	3081	
Heating mantle	Cole-parmer	WU-36225-10	
Mass flow controller	MKS	M100B	
Nafion tube	Perma Pure	MD-700-24F-1	
Nanometer aerosol sampler	TSI	3089	
Ozone generator	Jelight	600	
Ozone monitor	Ecosensors	UV-100	
Pressure sensor	Omega	PX409	
RH sensor	Rotronic	60587161	
Round-bottom, three neck flask	Aceglass	6944-04	
Scanning electron microscope	Zeiss	N/A	Ultra plus FESEM
Scanning mobility particle sizer	TSI	3071A+3772	electrostatic classifier is model 3071A and the condensational particle ocunter is 3772
Silicon substrate	University Wafer	1707	
Syringe Needle	Hamilton	90025	25 G, 2 inch
Syringe pump	Chemyx	Fusion Touch 200	
Temperature sensor and software	National Instrument	USB-TC01	
water circulator	Brinkmann	RC6	