

Materials List for:

# A Practical Guide on Coupling a Scanning Mobility Sizer and Inductively Coupled Plasma Mass Spectrometer (SMPS-ICPMS)

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## Materials

Name	Company	Catalog Number	Comments
ICPMS	Agilent Technologies, USA	7700x	Inductively Coupled Plasma Mass Spectrometer
DMA tube			similar to 3081 long DMA from TSI
Aerosol Neutralizer	TSI Inc., USA		85Kr radiation source
CPC	TSI Inc., USA	3010	Condensation Particle Counter
RDD	Matter Aerosol AG, Switzerland	MD193E	Rotating Disk Diluter;
Evaporation Tube	Matter Aerosol AG, Switzerland	ASET 15-1	Heated Tube
Aerosol Generator	Topas GmbH, Germany	ATM 220	aerosol generator
Silica Gel Drier	Topas GmbH, Germany	DDU570/H	silica gel diffusion drier
TGA	Mettler-Toledo Internat. Inc., CH	TGA/DCS1	Thermogravimetric analyzer
Gilibrator 2	Sensidyne, USA		primary flow calibrator
MFC	Sierra Instruments Inc., USA	Smart-Trak 50	mass flow controller
MFC	Brooks Instrument, Netherlands	4850	mass flow controller
MFC	Bronkhorst AG, Netherlands	F-201C-FAC-33-V	mass flow controller
In-Line Filter	Headline Filters, UK	DIF-LN30	disposable in-line filter
HEPA Filter	MSA (Mine Safety Appliances), USA	H cartridge #95302	High-Efficiency Particulate Air
Conductive tubing	Advanced Polymers Ltd Worthing, UK.		carbon impregnated silicone tubing, inner/outer diameters 6.0/12.0 mm
Name	Company	Catalog number	Comments
ZnO	Auer-Remy	5810MR, 1314-13-2	Nanopowder, 50 nm
NaCl	Merck	106406	Powder (>99.99%)
CuCl <sub>2</sub>	Merck	102733	Powder (>99.0%)
Poly-Acrylic Acid	SigmaAldrich	535931	solution (50 wt. % in H <sub>2</sub> O)