

Materials List for:

Detection of 3-Nitrotyrosine in Atmospheric Environments *via* a High-performance Liquid Chromatography-electrochemical Detector System

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Materials

Name	Company	Catalog Number	Comments
Quartz filter, backup quartz filter	PALL life sciences	7204	Tissuquatr 2500QAT-UP, 8x10in
High-volume air sampler	SIBATA SCIENTIFIC TECHNOLOGY	HV-1000F	
Particle size selector for SPM	SIBATA SCIENTIFIC TECHNOLOGY	080130-061	SPM (suspended particulate matters) is defined in Japan that particles with 10 um of 100% cut-off diameter. SPM is almost identical to PM7.
Low-volume air sampler	SIBATA SCIENTIFIC TECHNOLOGY	AH-600F	
Size classification unit for PM2.5	SIBATA SCIENTIFIC TECHNOLOGY	AH-600	
Quartz filters for classification (PM4.5–2.5, PM7.3–4.5, PM15–7.3, and TSP-PM15)	Tokyo Dylec	AHQ-630	
Non-specific protease cocktail	Roche	11459643001	Pronase from Streptomyces griseus
3-Nitrotyrosine	SIGMA	N7389	
Ultrafiltration membranes	Millipore	UFC5010BK	AMICON ULTRA 0.5 mL - 10kDa cutoff
ECD	Eicom	HTEC-500, PEC-510	standalone HPLC-ECD unit (HTEC-510) and Pre-electrolysis cell (PEC-510), includes pump
HPLC column	Eicom	SC-5ODS	
Data processor	Eicom	EPC-300	
Injector	Hitachi High-Tech Science	L-7200	Auto sampler
Analyzing software	eDAQ Japan	ES280	PowerChrom software