

Materials List for:

Quantification of three DNA Lesions by Mass Spectrometry and Assessment of Their Levels in Tissues of Mice Exposed to Ambient Fine Particulate Matter

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Materials

Name	Company	Catalog Number	Comments
[¹⁵ N ₅]-2'-deoxyadenosine	Cambridge Isotope Laboratories	NLM-3895-25	
[¹⁵ N ₅]-2'-deoxyguanosine	Cambridge Isotope Laboratories	NLM-3899-CA-10	
acetonitrile	Carlo Erba Reagents	412413000	
alkaline phosphatase from bovine intestinal mucosa	Sigma	P5521	
ammonium acetate	Merck	101116	
calf thymus DNA	Sigma	D1501	
cell lysis solution	QIAGEN	158908	
chloroform	Carlo Erba Reagents	412653	
deferoxamine	Sigma	D9533	
deoxyribonuclease I (DNase I)	Bio Basic Inc	DD0649	
ethanol	Carlo Erba Reagents	414542	
formic acid	Sigma-Aldrich	F0507	
HPLC-ESI-MS/MS system	HPLC: Agilent 1200 series ESI-MS/MS: Applied Biosystems/ MDS Sciex Instruments	HPLC: binary pump (G1312B), isocratic pump (G1310A), column oven with a column switching valve (G1316B), diode array detector (G1315C), auto sampler (G1367C). ESI-MS/MS: Linear Quadrupole Ion Trap mass spectrometer, Model 4000 QTRAP.	
HPLC/DAD system	Shimadzu	Two pumps (LC-20AT), photo diode array detector (DAD-20AV), auto-injector (Proeminence SIL-20AC), column oven (CTO-10AS/VP)	
HPLC column (50 x 2.0 mm i.d., 2.5 µm, C18)	Phenomenex	00B-4446-B0	
HPLC column (150 x 2.0 mm i.d., 3.0 µm, C18)	Phenomenex	00F-4251-B0	
HPLC column (250 x 4.6 mm i.d., 5.0 µm, C18)	Phenomenex	00G-4252-E0	

HPLC C18 security guard cartridge (4.0 x 3.0 mm i.d.)	Phenomenex	AJO-4287	
isoamyl alcohol	Sigma-Aldrich	M32658	
isopropyl alcohol (isopropanol)	Carlo Erba Reagents	A412790010	
ketamine	Ceva	Commercial name: Dopalen	
magnesium chloride	Carlo Erba Reagents	349377	
magnesium chloride	Sigma	M2393	
methanol	Carlo Erba Reagents	L022909K7	
phosphodiesterase I from <i>Crotalus atrox</i>	Sigma	P4506	
protein precipitation solution	QIAGEN	158912	
proteinase K	Sigma-Aldrich	P2308	
ribonuclease A	Sigma	R5000	
sodium chloride	Sigma-Aldrich	S9625	
SPE-C18 (Strata-X)	Phenomenex	8B-S100-TAK	
tris(hydroxymethyl)-aminomethane	Carlo Erba Reagents	489983	
xylazine	Syntec do Brasil	Commercial name: Xilazin	