

Supplemental Material

Diesel exhaust extract exposure induces neuronal toxicity by disrupting autophagy

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Analyte	DEP Sample	(Sample/% Recovery)
Phenanthrene	132.66	142.46
Anthracene	0.00	
Fluoranthene	403.88	420.58
Acephenanthrylene	0.00	
Pyrene	172.41	191.23
Benzo(GH)fluoranthene	106.21	93.23
Cyclopenta(cd)pyrene	0.00	
Benz(a)anthracene	0.00	
Chrysene	94.05	93.86
1-Methylchrysene	0.00	
Retene	0.00	
Benzo(b)fluoranthene	0.00	
Benzo(k)fluoranthene	0.00	
Benzo(j)fluoranthene	0.00	
Benzo(e)pyrene	0.00	
Benzo(a)pyrene	0.00	
Perylene	0.00	
Indeno(1,2,3-cd)pyrene	0.00	
Benzo(GH)perylene	0.00	
Dibenz(ah)anthracene	0.00	
Picene	0.00	
Coronene	0.00	
Dibenzo(ae)pyrene	0.00	
17A(H)-22,29,30-Trisnorhopane	0.00	
17A(H)-21B(H)-30-Norhopane	0.00	
17A(H)-21B(H)-Hopane	0.00	
22S-Homohopane	0.00	
22R-Homohopane	0.00	
22S-Bishomohopane	0.00	
22R-Bishomohopane	0.00	
22S-Trishomohopane	0.00	
22R-Trishomohopane	0.00	
AAA-20S-C27-Cholestane	0.00	
ABB-20R-C27-Cholestane	0.00	
AAA-20R-C27-Cholestane	0.00	
ABB-20R-C28-Ergostane	0.00	
ABB-20S-C28-Ergostane	0.00	
ABB-20R-C29-Sitostane	0.00	
ABB-20S-C29-Sitostane	0.00	
Undecane	0.00	
Dodecane	0.00	
Tridecane	0.00	
Tetradecane	0.00	
Pentadecane	0.00	
Hexadecane	1040.07	956.30
Norpristane	0.00	
Heptadecane	538.56	632.34
Pristane	0.00	
Octadecane	901.18	969.01
Phytane	352.18	381.31
Nonadecane	1243.17	1295.51
Eicosane	1269.96	1223.59
Heneicosane	1060.36	943.80
Docosane	696.48	619.64
Tricosane	364.64	373.49
Tetracosane	202.20	197.27
Pentacosane	234.87	237.70
Hexacosane	141.03	142.77
Heptacosane	229.29	230.00
Octacosane	411.57	413.31
Nonacosane	629.88	615.96

Analyte	DEP Sample	(Sample/% Recovery)
Triacotane	1017.15	1011.69
Hentriacontane	1167.64	1117.89
Dotriacontane	1556.55	1479.89
Tritriacontane	1369.05	1289.37
Tettriacontane	1317.22	1290.38
Pentatriacontane	1030.87	995.72
Hexatriacontane	819.04	809.41
Heptatriacontane	714.54	712.97
Octatriacontane	683.50	706.90
Nonatriacontane	667.22	682.30
Tetracontane	726.53	719.76
Pentadecylcyclohexane	0.00	
Hexadecylcyclohexane	0.00	
Heptadecylcyclohexane	0.00	
Octadecylcyclohexane	0.00	
Nonadecylcyclohexane	0.00	
Squalane	0.00	
Hexanoic acid	0.00	
Octanoic acid	0.00	
Decanoic acid	254.57	232.48
Dodecanoic acid	604.51	602.10
Tetradecanoic acid	890.44	846.02
Pentadecanoic acid	1101.10	1101.10
Hexadecanoic acid	2919.70	2212.40
Heptadecanoic acid	778.85	778.85
Octadecanoic acid	2958.56	2241.16
Nonadecanoic acid	317.64	317.64
Pinonic acid	0.00	
Palmitoleic acid	0.00	
Oleic acid	0.00	
Linoleic acid	0.00	
Linolenic acid	0.00	
Eicosanoic acid	192.51	186.78
Heneicosanoic acid	0.00	
Docosanoic acid	0.00	
Tricosanoic acid	0.00	
Tetracosanoic acid	0.00	
Pentacosanoic acid	0.00	
Hexacosanoic acid	0.00	
Heptacosanoic acid	0.00	
Octacosanoic acid	0.00	
Nonacosanoic acid	0.00	
Triacotanoic acid	0.00	
Dehydroabietic acid	0.00	
7-oxodehydroabietic acid	0.00	
Phthalic acid	8192.84	6957.83
Isophthalic acid	2451.30	1949.96
Terephthalic acid	1335.29	1080.77
1,2,4-Benzenetricarboxylic acid	10195.07	11391.14
1,2,3-Benzenetricarboxylic acid	608.17	585.29
1,3,5-Benzenetricarboxylic acid	0.00	
1,2,4,5-Benzenetetracarboxylic acid	10553.16	32794.16
Methylphthalic acid	3635.63	3084.18
Succinic acid	0.00	
Glutaric acid	0.00	
Adipic acid	0.00	
Pimelic acid	0.00	
Suberic acid	0.00	
Azelaic acid	0.00	
Sebacic acid	0.00	

Supplemental Table 1: DEPe component analysis- Compound quantities are given in ng/40uL. % recovery is quantified using a spiked sample of known concentration and each compound yield is adjusted for % recovery.