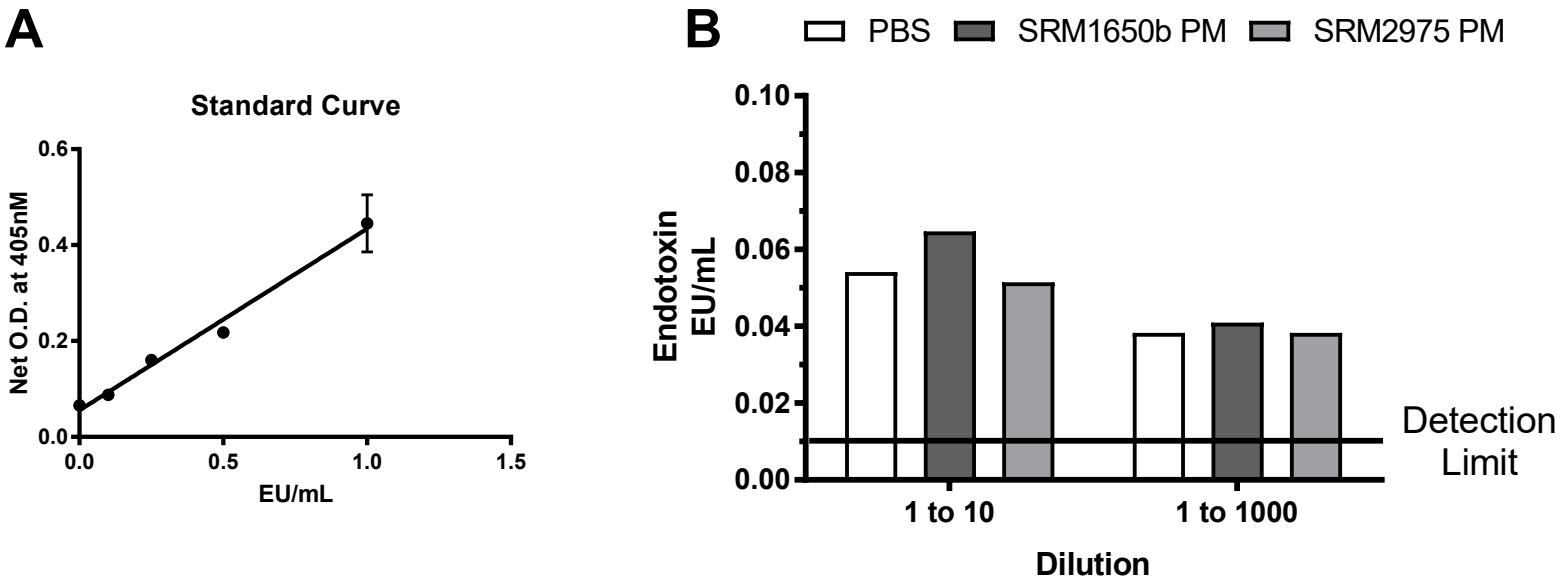
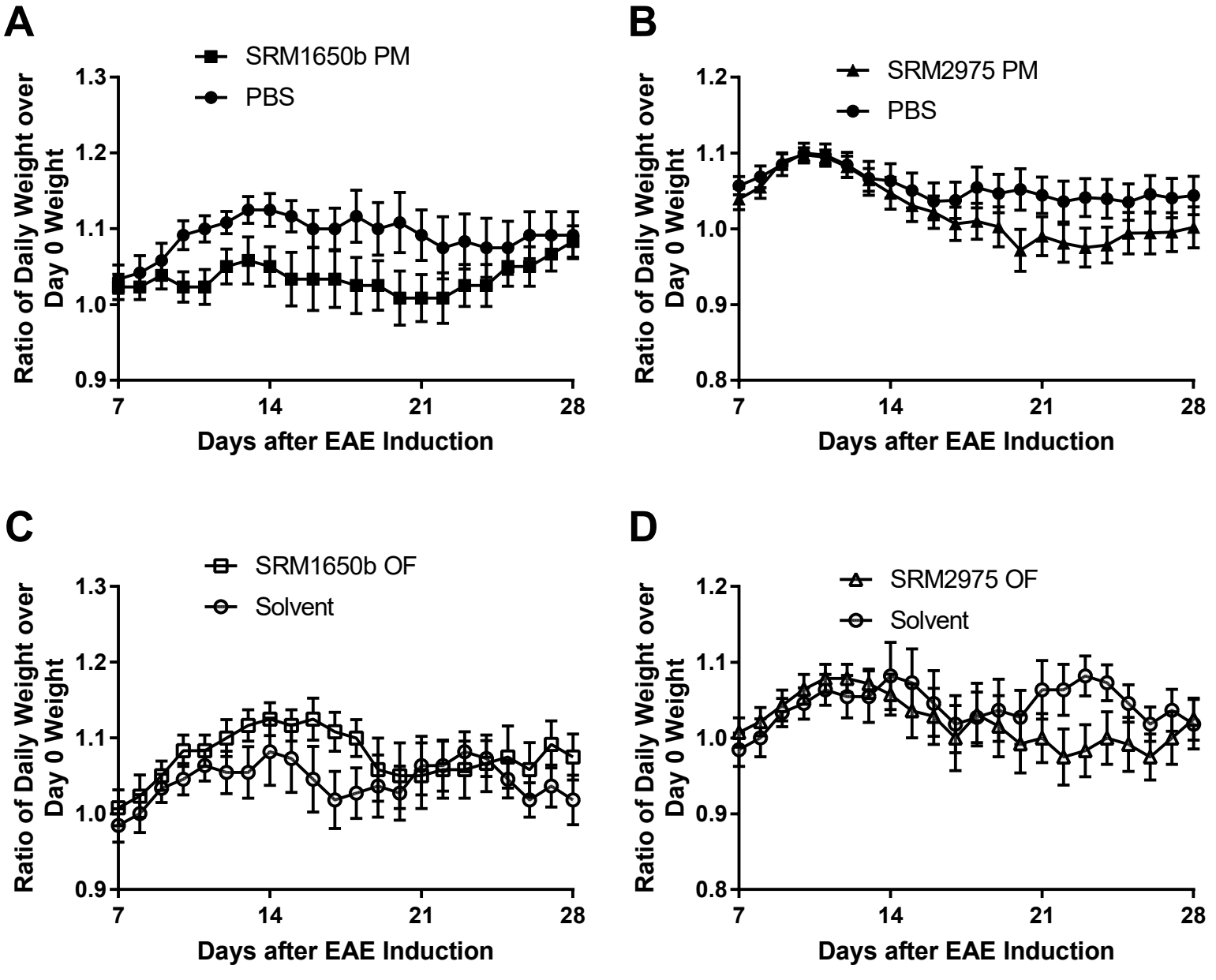

A
Standard Curve
Net O.D. at 405nM
0.6
0.4
0.2
0.0
0.0
0.5
1.0
1.5
EU/mL
B
PBS
SRM1650b PM
SRM2975 PM
Endotoxin EU/mL
0.10
0.08
0.06
0.04
0.02
0.00
Detection Limit
1 to 10
1 to 1000
Dilution


A
SRM1650b PM
PBS
Ratio of Daily Weight over Day 0 Weight
1.3
1.2
1.1
1.0
0.9
7
14
21
28
Days after EAE Induction
B
SRM2975 PM
PBS
Ratio of Daily Weight over Day 0 Weight
1.2
1.1
1.0
0.9
0.8
7
14
21
28
Days after EAE Induction
C
SRM1650b OF
Solvent
Ratio of Daily Weight over Day 0 Weight
1.3
1.2
1.1
1.0
0.9
7
14
21
28
Days after EAE Induction
D
SRM2975 OF
Solvent
Ratio of Daily Weight over Day 0 Weight
1.2
1.1
1.0
0.9
0.8
7
14
21
28
Days after EAE Induction

PAHs	SRM1650b			SRM2975		
	ng PAH/mL extracted	ng PAH/ 10µg/mL dose exposure	ng/PAH per cell at 10µg/mL dose exposure	ng PAH/mL extracted	ng PAH/ 10µg/mL dose exposure	ng/PAH per cell at 10µg/mL dose exposure
Phenanthrene	10943	0.76091	5.0727E-06	2529.13	1.7923	1.1529E-05
Anthracene	689.50	0.04794	3.1963E-07	0	0	0
Fluoranthene	11568	0.80437	5.3625E-06	5801.2	3.9666	2.6444E-05
Pyrene	10613	0.73795	4.9196E-06	0	0	0
Benz[a]anthracene	2451.2	0.17044	1.1363E-06	0	0	0
Chrysene	9680.4	0.67313	4.4875E-06	1487.5	1.0171	6.7804E-06
Benzo[b]fluoranthene	1913.9	0.13308	8.8721E-07	1956.6	1.3379	8.9192E-06
Benzo[k]fluoranthene	1153.9	0.080233	5.3489E-07	0	0	0
Benzo[e]pyrene	1522.0	0.10583	7.0554E-07	164.27	0.11232	7.4881E-07
Benzo[a]pyrene	317.85	0.022102	1.4735E-07	0	0	0
Perylene	0	0	0	0	0	0
Indeno[1,2,3-cd] pyrene	1391.48	0.096756	6.4504E-07	249.72	0.17075	1.1383E-06
Benzo[g,h,i]perylene	1550.83	0.10784	7.1891E-07	0	0	0
Dibenz[a,h]anthracene	0	0	0	0	0	0
Picene	0	0	0	0	0	0

Table S1: PAH concentrations in OF extracts. PAH concentrations of 15 EPA PAHs of concern for SRM1650b and SRM2975 OF. The ng of each PAH that was extracted using the DCM/DMSO solvent extraction was measured. The PAH concentrations are shown in ng of individual PAHs present in the highest 10µg/mL OC exposure of the OF. Additionally, ng of PAH per cell in the highest 10µg/mL OC exposure was also calculated.

PAHs	SRM1650b			SRM2975		
	ng PAH	ng PAH/ 10µg/mL OC exposure	ng PAH/ cell at 10µg/mL OC exposure	ng PAH	ng PAH/ 10µg/mL OC exposure	ng PAH/ cell at 10µg/mL OC exposure
Phenanthrene	10.948	0.72989	4.8659E-06	12.641	1.6855	1.1237E-05
Anthracene	0.68984	0.045990	3.0660E-07	0	0	0
Fluoranthene	11.573	0.77158	5.1438E-06	28.771	3.8362	2.5575E-05
Pyrene	10.618	0.70786	4.7191E-06	0	0	0
Benz[a]anthracene	2.4524	0.16350	1.0900E-06	0	0	0
Chrysene	9.6853	0.64568	4.3046E-06	7.3772	0.9836	6.5575E-06
Benzo[b]fluoranthene	1.9148	0.12766	8.5104E-07	9.7041	1.2939	8.6259E-06
Benzo[k]fluoranthene	1.1544	0.07696	5.1308E-07	0	0	0
Benzo[e]pyrene	1.5227	0.10152	6.7678E-07	0.8147	0.1086	7.2419E-07
Benzo[a]pyrene	0.31801	0.02120	1.4134E-07	0	0	0
Perylene	0	0	0	0	0	0
Indeno[1,2,3-cd] pyrene	1.39218	0.092812	6.1875E-07	1.2385	0.1651	1.1009E-06
Benzo[g,h,i]perylene	1.5516	0.10344	6.8960E-07	0	0	0
Dibenz[a,h]anthracene	0	0	0	0	0	0
Picene	0	0	0	0	0	0

Table S2: PAH mixture PAH concentrations. PAH concentrations of 15 EPA PAHs of concern for SRM1650b and SRM2975. The PAH concentrations were measured in ug/mL of PAH extracted as well as ng of individual PAHs present in the highest 10µg/mL OC exposure. Additionally, ng of PAH per cell at the highest 10µg/mL dose was calculated.

	SRM1650b			SRM2975		
Dose (µg/mL PM)	**pg PM/cell**	**µg OC/mL**	**pg OC/cell**	**pg PM/cell**	**µg OC/mL**	**pg OC/cell**
40	0.17	9.0	0.038	0.17	2.3	9.9E-03
20	0.043	4.5	9.6E-03	0.043	1.2	2.5E-03
12.5	0.017	2.8	3.8E-03	0.017	0.73	9.7E-04
3.125	0.0010	0.70	2.3E-04	0.0010	0.18	6.0E-06
0.78	0.00013	0.18	2.9E-05	0.00013	0.050	7.5E-06

Table S3: PM *in vitro* dose conversion. This table converts the PM doses based on mass of PM to mass of organic carbon. Additionally, mass of PM and mass of OC per cell are calculated.

	SRM1650b			SRM2975		
Dose (ug/mL OC)	**pg OC/cell**	**µg PM/mL**	**pg PM/cell**	**pg OC/cell**	**µg PM/mL**	**pg PM/cell**
10	4.667E-03	44.44	0.02074	0.04533	172.4	0.7816
5	2.333E-03	22.22	0.0137	0.02267	86.21	0.3908
1	4.667E-04	4.444	2.074E-03	4.533E-03	17.24	0.07816
0.1	4.667E-05	0.4444	2.074E-04	4.533E-04	1.724	7.816E-03
0.01	4.667E-06	0.04444	2.074E-05	4.533E-05	0.1724	7.816E-04
0.001	4.667E-07	0.004444	2.074E-06	4.533E-06	0.01724	7.816E-05
0.0001	4.667E-08	0.0004444	2.074E-07	4.533E-07	0.001724	7.816E-06
0.00001	4.667E-09	0.00004444	2.074E-08	4.533E-08	0.0001724	7.816E-07

Table S4: OF *in vitro* dose conversion. This table converts the OF and PAH mixture doses based on organic carbon to a measure based on mass of PM. Additionally, mass of OC and mass of PM per cell are calculated.