

## Additional file 7

### A

	P90 (mg/m <sup>3</sup> )		P90-BaP (mg/m <sup>3</sup> )		AS-PAH (mg/m <sup>3</sup> )	
	grav.	phot.	grav.	phot.	grav.	phot.
Mean	5.32	5.31	5.90	5.91	6.06	6.09
SD	0.88	0.88	0.56	0.54	1.41	1.35

### B

	P90		P90-BaP		AS-PAH	
	MMAD (µm)	GSD (-)	MMAD (µm)	GSD (-)	MMAD (µm)	GSD (-)
Before exposure	0.63	3.46	2.48	2.83	2.19	2.72
During exposure	0.81	2.81	2.41	3.28	2.87	2.13

### CBNP aerosol concentration and results of Marple impactor measurements used by nose-only inhalation experiments

Aerosol concentration measured gravimetrically by filter samples (grav.) and calculated from the photometer signal by using the calibration factor (phot.) are shown in Table **A**. Table **B** shows mass median aerodynamic diameters (MMAD) with geometric standard deviation (GSD).