

Supporting information

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Stage	Aerodynamic diameter (μm)	Class
Inlet	>18	Coarse
S1	18–10	
S2	10–5.6	
S3	5.6–3.2	
S4	3.2–1.8	
S5	1.8–1	Fine
S6	1–0.56	
S7	0.56–0.32	
S8	0.32–0.18	
S9	0.18–0.10	
S10	0.10–0.056	
Outlet (backup)	<0.056	

Figure S1. The 10-stage cascade impactor (MOUDI) employed for the sampling in the wind chamber.



Figure S2. Flowmeter employed for the correct performance measure of the cascade impactor.

Table S1. Instrumental parameters for fluorescein analysis.

Instrumental parameters		
UHPLC		
Column type	Agilent Zorbax SB C18 2.1 X 150 3.5 μm	
Eluent	A H ₂ O	B CH ₃ OH
	C -	D -
Flow	0.300 mL/min	
Injection volume	20 μL	
Run	0-0.8 min isocratic step at 10% B 0.8-1.5 min gradient from 10% to 100% B 1.5-5 min isocratic step at 100% B 5-6 min equilibration stage at 10% B	
Altis Triple Quadrupole		
Negative potential	-2300 V	
Sheath gas	50 Arb	
Auxiliar gas	5 Arb	
Sweep gas	0 Arb	
Ion transfer tube temperature	250 °C	
Vaporizer temperature	400 °C	

Table S2. MS/MS filter parameter for native compound Fluorescein.

Compound	Polarity	Precursor (m/z)	Product (m/z)	RF-Lens	Collision energy
FLUO	(-)	331.148	286.375 (quantifier)	80	19.95
			243.125 (qualifier)	80	25.43

Table S3. Values of blank, MDL, MQL, recovery, trueness and precision for fluorescein extraction procedure validation, expressed as the relative percentage standard deviation (RSD%).

Substrate	Blank ($\mu\text{g L}^{-1}$)	MDL ($\mu\text{g L}^{-1}$)	MQL ($\mu\text{g L}^{-1}$)	Recovery (%)	Trueness (%)	Precision (%)
Aluminium	0.022571	0.029368	0.097892	96	-4	4
Quartz	0.04949	0.022782	0.075940	102	7	3