

**S5 Table. Retention time (average  $\pm$  SD) and exact mass accuracy ( $\Delta$ ppm) of the targeted analytes, evaluated on continued calibration verification (CCV) standards.**

Quality control spikes were run after every 15 injections in the LC-MS sequence. The relative standard deviation (RSD) of retention time was  $<0.2\%$ , which is within the tolerance threshold of  $\pm 2.5\%$  set by the European Commission (2002/657/EC). The  $\Delta$ ppm tolerance applied was  $\pm 5$  ppm.

	Retention time (min)	Average measured m/z	Theoretical m/z	$\Delta$ ppm
AEG	$6.29 \pm 0.007$	$561.20417 \pm 0.00007$	561.20201	3.9
BAMA	$6.45 \pm 0.005$	$561.20419 \pm 0.00009$	561.20201	3.9
DAB	$6.54 \pm 0.007$	$561.20427 \pm 0.00006$	561.20201	4.0
BMAA	$6.65 \pm 0.012$	$561.20437 \pm 0.00009$	561.20201	4.2