

Supplementary Information

Simultaneous determination of cholesterol precursors, plant sterols, and oxysterols in plasma using one-round pretreatment

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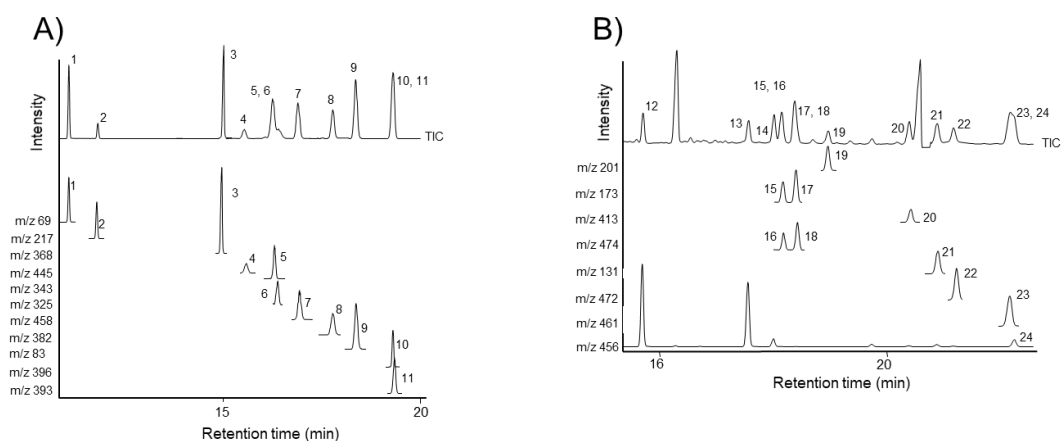


Fig. S1 Selected ion monitoring (SIM) chromatograms of the TMS ether derivatives.

A) Cholesterol, its precursors, plant sterols, and cholestanol and B) oxysterols.

(1) squalene, (2) 5α -cholestane (IS), (3) cholesterol, (4) β -cholestanol, (5) desmosterol, (6) 7-dehydrocholesterol, (7) lathosterol, (8) campesterol, (9) stigmasterol, (10) β -sitosterol, (11) lanosterol, (12) 7α -hydroxycholesterol, (13) 7β -hydroxycholesterol, (14) 4β -hydroxycholesterol, (15) $22S$ -hydroxycholesterol, (16) cholesterol- 5β , 6β -epoxide, (17) $22R$ -hydroxycholesterol, (18) cholesterol- 5α , 6α -epoxide, (19) $20S$ -hydroxycholesterol (20) $24S$ -hydroxycholesterol, (21) 25 -hydroxycholesterol, (22) 7-ketocholesterol, (23) $27d_5$ -OHC (IS), and (24) 27 -hydroxycholesterol.

The chromatograms of cholesterol, its precursors, plant sterols, and cholestanol corresponded to a concentration of 5 $\mu\text{g/mL}$, whereas that of 7-dehydrocholesterol conformed to 10 $\mu\text{g/mL}$; the oxysterol chromatogram was associated with a

concentration of 200 ng/mL.