

臍帯血中の胆汁酸とPFOSの分離

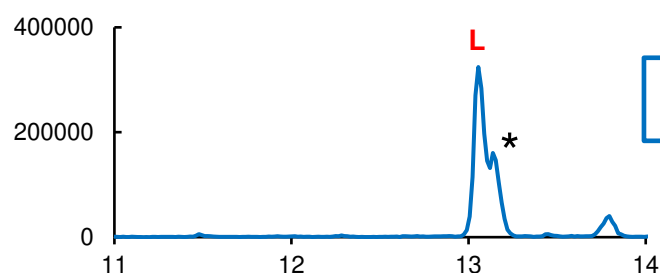
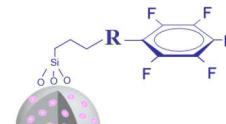
SunBridge PFP-R 3 μ m,
150 x 2.1 mm i.d.

Bile Acids and PFOS (a key PFAS) in umbilical cord blood

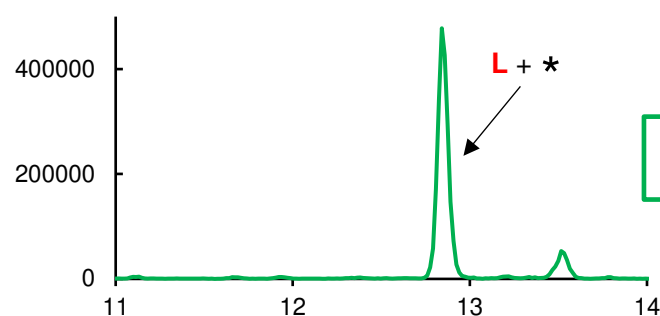
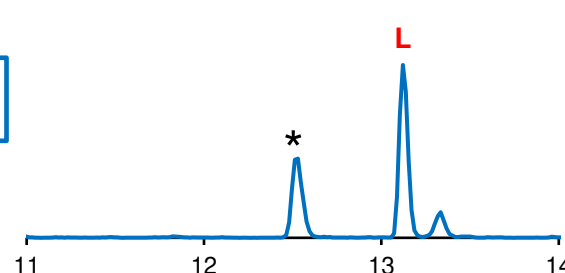
MRM: 499>80

C18

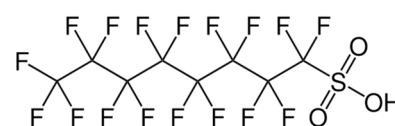
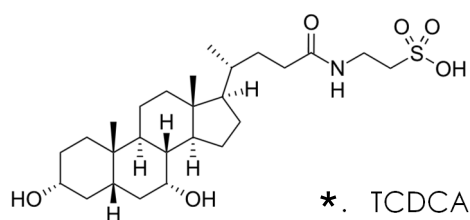
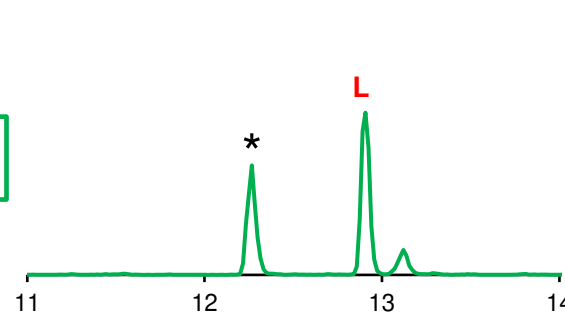
SunBridge PFP-R



40°C



50°C



L. L-PFOS

Column: SunBridge PFP-R 3 μ m, Other company C18(core-shell) 2.6 μ m

Column dimension: 150 x 2.1 mm

Mobile phase: [A] Methanol [B] 10 mM Ammonium Acetate in water

Gradient program: shown right

Flow rate: 0.25 mL / min, Temperature: shown above

Instrument: ExionLC AC system, Triple Quad 4500 system (SCIEX)

Sample: Umbilical cord plasma extract† (with 5 ng/mL PFAS mixed standard solution),

* = Taurochenodeoxycholic acid (TCDCA), L = Linear-perfluorooctanesulfonic acid (L-PFOS)

Extraction method:

† Honda, M., Robinson, M., & Kannan, K. (2018). A rapid method for the analysis of perfluorinated alkyl substances in serum by hybrid solid-phase extraction. Environmental Chemistry, 15(2), 92-99.

Time(min)	0	2	12	17
A Conc.	10	10	90	100

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