

Supplementary data on method for analysis of Octanoylcarnitine (C8)

Method based on article

Midttun et al (2013), PMID 23232958.

Material

Octanoylcarnitine (purity > 97%) was obtained from Sigma-Aldrich, St. Louis, USA. Octanoylcarnitine-d3 (99.9%) was obtained from C/D/N Isotopes, Quebec, Canada.

Instrumentation

Same as in PMID 23232958.

Chromatography and detection

LC-MS/MS; positive-ion multiple reaction monitoring (MRM);
retention time = 5.1 min.

C8 precursor ion = 288.1 m/z; product ion = 229.1 m/z. C8-d3
precursor ion = 291.1 m/z; product ion = 84.5 m/z.

Method performance

LOD (S/N >5): 0.05 μ mol/L.

Within-day CV: %.

Between-day CV: %.