Assessment of disease risk
by targeted metabolomics

Supplementary data on method for analysis of Citrate (Cit).

Method based on article
Midttun et al (2016), PMID 27715010.

Material
Citrate (purity ≥99.5%) was obtained from Sigma-Aldrich, St.Louis, MO 63103 USA or 89555 Steinheim Germany.
Citrate-d4 (purity 99.2%) was obtained from C/D/N Isotopes Inc., 88 Leacock Street Pointe-Claire, Quebec, Canada.

Instrumentation
Agilent 7010B GC/TQ and Agilent 8890 GC System.

Chromatography and detection
GC-MS/MS; positive-ion multiple reaction monitoring (MRM); retention time = 3.97 min.
Citrate precursor ion = 203.0 m/z; product ion = 157.0 m/z.
Citrate-d4 precursor ion = 207.0 m/z; product ion = 161.0 m/z.

Method performance
Linear range: 4 - 1000 µmol/L.
Linearity: r2: 0.998.
LOD (S/N >5): 4 µmol/L.
Within-day CV: 3-5 %.
Between-day CV: 3-5 %.