Assessment of disease risk
by targeted metabolomics

Supplementary data on method for analysis of Carboxyethyllysine (CEL).

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

Material
Carboxyethyllysine (purity ≥98%) and Carboxyethyllysine-d4 (purity ≥98%) was obtained from Toronto Research Chemical, 20 Martin Ross Ave, Toronto, ON, M3J 2K8 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 = 6.91 min.
Carboxyethyllysine precursor ion = 285.0 m/z; product ion = 156.0 m/z.
Carboxyethyllysine-d4 precursor ion = 289.0 m/z; product ion = 160.0 m/z.

Method performance
Linear range: 0.03 - 100 µmol/L.
Linearity: r2: 0.999.
LOD (S/N >5): 0.03 µmol/L.
Within-day CV: 3-5 %.
Between-day CV: 3-5 %.