Assessment of disease risk
by targeted metabolomics

Supplementary data on method for analysis of Imidazolepropionic acid (ImP)

Method based on article
Midttun et al (2009), PMID 19337982.

Material
Imidazolepropionic acid (purity >98%) was obtained from Sigma-Aldrich, St. Louis, MO 63178 USA.
4-pyridoxic acid-d2 (PA-d2) (purity >98%) was obtained from from Buchem (Apeldoorn, The Netherlands).

Instrumentation
Same as in PMID 19337982.

Chromatograpy and detection
LC-MS/MS; positive-ion multiple reaction monitoring (MRM);
ImP precursor ion = 141.1 m/z; product ion = 123 m/z; retention time = 3.39 min.
PA-d2 was used as internal standard; precursor ion = 186.2 m/z; product ion = 150.0 m/z; retention time = 3.38 min.

Method performance
Linear range: 0 - 1000 nmol/L.
Linearity: r2: 0.99.
LOD (S/N >3): 2 nmol/L.
Within-day CV: 5 %.
Between-day CV: 5.4 %.