

## Supplementary data on method for analysis of Isovalerylcarnitine (iC5)

### **Method based on article**

Middtun et al (2013), PMID 23232958.

### **Material**

Isovalerylcarnitine (purity > 94%) was obtained from Sigma-Aldrich, St. Louis, USA. Isovalerylcarnitine-d9 (>97%) was obtained from Sigma-Aldrich, St. Louis, USA.

### **Instrumentation**

Same as in PMID 23232958.

### **Chromatography and detection**

LC-MS/MS; positive-ion multiple reaction monitoring (MRM);  
retention time = 4.6 min.

iC5 precursor ion = 245.3 m/z; product ion = 186.4 m/z. iC5-d9  
precursor ion = 254.3 m/z; product ion = 186.4 m/z.

### **Method performance**

LOD (S/N >5): 0.05  $\mu\text{mol/L}$ .

Within-day CV: %.

Between-day CV: %.