



Assessment of disease risk  
by targeted metabolomics

## Supplementary data on method for analysis of Carnitine (C0)

### **Method based on article**

Mittun et al (2013), PMID 23232958.

### **Material**

Carnitine was obtained from Sigma-Aldrich, St. Louis, USA.  
Carnitine-d3 (99.8%) 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 = 2.1 min.

C0 precursor ion = 161.5 m/z; product ion = 102.4 m/z. C0-d3  
precursor ion = 164.5 m/z; product ion = 102.4 m/z.

### **Method performance**

LOD (S/N >5): 0.5  $\mu\text{mol/L}$ .

Within-day CV: %.

Between-day CV: %.