

Supplementary data on method for analysis of 3-Hydroxybutyrate (bHB).

### Method based on article

Midttun et al (2016), PMID 27715010.

### **Material**

3-Hydroxybutyrate (purity 95%) was obtained from Sigma-Aldrich, St.Louis, MO 63103 USA or 89555 Steinheim Germany.

3-Hydroxybutyrate-d2 (purity 99%) 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 = 2.95 min.

3-Hydroxybutyrate precursor ion = 145.0 m/z; product ion = 69.0 m/z. 3-Hydroxybutyrate-d2 precursor ion = 147.0 m/z; product ion = 70.0 m/z.

# **Method performance**

Linear range: 1 - 1000 µmol/L.

Linearity: r2: 0.998. LOD (S/N >5): 1 µmol/L. Within-day CV: 2-4 %. Between-day CV: 3-5 %.