

Supplementary data on method for analysis of Isovalerate (iVIr)

### Method based on article

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### Material

Isovaleric acid (purity 99%) was obtained from Sigma-Aldrich, St.Louis, MO 63103 USA or 89555 Steinheim Germany. 3-Methylbutyric-d9 Acid (purity >98.5%-d9) was obtained from CDN isotopes. Ponte-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 = 5.62 min. Isovalerate precursor ion = 192 m/z; product ion = 108 m/z.

Isovalerate precursor ion = 192 m/z, product ion = 100 m/z. Isovalerate-d9 acid precursor ion = 201 m/z; product ion = 109 m/z.

# **Method performance**

Linear range: 0.02 - 1000 µmol/L.

Linearity: r2: 0.99.

LOD (S/N >5): 0.02 µmol/L. Within-day CV: 3-6 %.

Between-day CV: 3-8 %.