

# Supplementary data on method for analysis of Valerate (VIr)

### Method based on article

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#### Material

Valeric acid (purity ≥99%) was obtained from Sigma-Aldrich, St.Louis, MO 63103 USA or 89555 Steinheim Germany. Pentanoic acid-d9 (purity 98%) 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 = 5.91 min.

Valerate precursor ion = 192 m/z; product ion = 108 m/z. Valerate-d9 precursor ion = 201 m/z; product ion = 108 m/z.

# **Method performance**

Linear range: 0.05 - 1000 µmol/L.

Linearity: r2: 0.99.

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

Within-day CV: 3-6 %. Between-day CV: 4-8 %.