

## Supplementary data on method for analysis of Butyrate (But)

### Method based on article

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### Material

Butyric acid (purity  $\geq 99\%$ ) was obtained from Sigma-Aldrich, St. Louis, MO 63103 USA or 89555 Steinheim Germany. Butyric-4,4,4-d<sub>3</sub> Acid (purity 99.8%-d<sub>3</sub>) 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 = 5.45 min.

Butyrate precursor ion = 178 m/z; product ion = 108 m/z. Butyrate-d<sub>3</sub>  
precursor ion = 181 m/z; product ion = 108 m/z.

### Method performance

Linear range: 0.2 - 1000  $\mu\text{mol/L}$ .

Linearity:  $r^2$ : 0.99.

LOD (S/N >5): 0.2  $\mu\text{mol/L}$ .

Within-day CV: 3-6 %.

Between-day CV: 3-6 %.