

Supplementary data on method for analysis of β -Aminoisobutyrate (BAIBA).

Method based on article

Midttun et al (2016), PMID 27715010.

Material

β -Aminoisobutyrate (purity $\geq 98\%$) was obtained from Sigma-Aldrich, St. Louis, MO 63103 USA or 89555 Steinheim Germany.

β -Aminoisobutyrate-d3 (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 = 3.32 min.

β -Aminoisobutyrate precursor ion = 144.0 m/z; product ion =
84.0 m/z.

β -Aminoisobutyrate-d3 precursor ion = 147.0 m/z; product ion =
87.0 m/z.

Method performance

Linear range: 0.2 - 500 $\mu\text{mol/L}$.

Linearity: r^2 : 0.996.

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

Within-day CV: 2-4 %.

Between-day CV: 3-5 %.