

Supplementary data on method for analysis of β-Alanine (bALA).

Method based on article

Midttun et al (2016), PMID 27715010.

Material

β-Alanine (purity 99%) and β-Alanine 13C3,15N (purity 98 atom%15N, 99 atom%13C) was obtained from Sigma-Aldrich, St.Louis, MO 63103 USA or 89555 Steinheim Germany.

Instrumentation

Agilent 7010B GC/TQ and Agilent 8890 GC System.

Chromatography and detection

GC-MS/MS; positive-ion multiple reaction monitoring (MRM); retention time = 3.27 min.

 β -Alanine precursor ion = 130.0 m/z; product ion = 88.0 m/z. β -Alanine 13C3,15N precursor ion = 134.0 m/z; product ion = 92.0 m/z.

Method performance

Linear range: 0.3 - 1000 µmol/L.

Linearity: r2: 0.996.

LOD (S/N >5): 0.3 µmol/L. Within-day CV: 3-5 %. Between-day CV: 3-5 %.