

Supplementary data on method for analysis of 3-Methylhistidine (m3His)

Method based on article

Middtun et al (2013), PMID 23232958.

Material

3-Methylhistidine (purity $\geq 98\%$) was obtained from Sigma Aldrich, St. Louis, USA. 3-Methylhistidine-d3 (99.6%) was obtained from C/D/N Isotopes, Quebec, Canada.

Instrumentation

Same as in PMID 23232958.

Chromatography and detection

LC-MS/MS; positive-ion multiple reaction monitoring (MRM);
retention time = 2.35 min.

m3His precursor ion = 170 m/z; product ion = 123.8 m/z. m3His-d3
precursor ion = 173 m/z; product ion = 126.8 m/z.

Method performance

LOD (S/N >5): 0.6 $\mu\text{mol/L}$.

Within-day CV: 4-5 %.

Between-day CV: 3-6 %.