

Supplementary data on method for analysis of Trimethylamineoxide (TMAO)

Method based on article

Middtun et al (2013), PMID 23232958.

Material

Trimethylamine N-oxide dihydrate (purity $\geq 99\%$) was obtained from Sigma Aldrich, St. Louis, USA. Trimethylamine N-oxide (D9, 98%) was obtained from Cambridge Isotope Laboratories, Inc, USA.

Instrumentation

Same as in PMID 23232958.

Chromatography and detection

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

TMAO precursor ion = 76.1 m/z; product ion = 58.1 m/z. TMAO-d9
precursor ion = 85.1 m/z; product ion = 67.1 m/z.

Method performance

Linear range: 0.1 - 100 $\mu\text{mol/L}$.

Linearity: r^2 : 0.99.

LOD (S/N >5): 0.1 $\mu\text{mol/L}$.

Within-day CV: 4-6 %.

Between-day CV: 3-5 %.