

Supplementary data on method for analysis of Trigonelline (Trig)

Method based on article

Midttun et al (2009), PMID 19337982.

Material

Trigonelline HCl (purity >98%) was obtained from Sigma- Aldrich, St. Louis, MO 63178 USA.

Trigonelline-d3 (purity >99%) was obtained from CDN isotopes. Ponte-Claire, Quebec, Canada.

Instrumentation

Same as in PMID 19337982.

Chromatography and detection

LC-MS/MS; positive-ion multiple reaction monitoring (MRM); retention time = 2.4 min.

Trigonelline precursor ion = 138 m/z; product ion = 78 m/z.

Trigonelline-d3 precursor ion = 141 m/z; product ion = 78 m/z.

Method performance

Linear range: 0.01 - 100 $\mu\text{mol/L}$.

Linearity: r^2 : 0.99.

LOD (S/N >5): 0.01 $\mu\text{mol/L}$.

Within-day CV: 3-4 %.

Between-day CV: 3-4 %.