

Supplementary data on method for analysis of Quinaldic acid (Qld)

Method based on article

Midttun et al (2009), PMID 19337982.

Material

Quinaldic acid (purity >98%) was obtained from Sigma-Aldrich, St.Louis, MO 63178 USA or 89555 Steinheim Germany. Quinaldic-d6 acid (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 = 4.35 min.

Quinaldic acid precursor ion = 174.2 m/z; product ion = 128.2 m/z.

Quinaldic-d6 acid precursor ion = 180.2 m/z; product ion = 134.2 m/z.

Method performance

Linear range: 0.5 - 500 nmol/L.

Linearity: r²: 0.99.

LOD (S/N >5): 0.5 nmol/L.

Within-day CV: 6-7 %.

Between-day CV: 6-8 %.