

Supplementary data on method for analysis of
Indole-3-acetate (IAA)

Method based on article: Midttun et al (2009), PMID 19337982.

Material:

Indole-3-acetic acid (purity >98%) was obtained from Sigma-Aldrich, Kappelweg 1, D-91625 Schnellendorf, Germany.

Indole-d₅-3-acetic acid from J.H.Ritmeester B.V., Ravenswade 74, 3439 LD NIEUWEGEIN, NETHERLANDS

Instrumentation: Same as in PMID 19337982

Chromatography and detection:

LC-MS/MS; positive-ion multiple reaction monitoring (MRM);
retention time = 4.95 min.

IAA precursor ion = 176.2 m/z; product ion = 130.2 m/z;

IAA-13C₆ precursor ion = 181.2 m/z; product ion = 134.2 m/z.

Method performance:

Linear range: 0.05 – 50 µmol/L.

Linearity, r²: 0.99

LOD (S/N >5): 0.05 µmol/L.

Within-day CV: 4 – 5 %

Between day CV: 4 – 6 %