Analytical and Bioanalytical Chemistry

Electronic Supplementary Material

*Populus nigra* L. bud absolute: a case study for a strategy of analysis of natural complex substances

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**Fig. S1.** GC-MS profiles of the molecular distillation fractions without derivatization

Abundance

**Fraction VF**

**Fraction DF**

**Fraction RF**
Fig. S2. GC-MS profiles of the molecular distillation fractions with derivatization

Abundance

Fraction VF

Fraction DF

Fraction RF
Fig. S3. Spectral data of the main unknown components with derivatization

Unknown 1
$\ell$ 1841

Unknown 2
$\ell$ 1911

Unknown 3
$\ell$ 2144
Unknown 4

$\beta$ 2238

Unknown 5

$\beta$ 2337

Unknown 6

$\beta$ 2408
Unknown 7
m/z 2449

Unknown 8
m/z 2460

Unknown 9
m/z 2499
Unknown 22

$J^* 2897$
Fig. S4. Spectral data of the main unknown components without derivatization

**Unknown 1**
\( \mu^2 1468 \)

**Unknown 2**
\( \mu^2 1501 \)

**Unknown 3**
\( \mu^2 1534 \)
Unknown 13
\( m/\ell \ 1810 \)

Unknown 14
\( m/\ell \ 1874 \)

Unknown 15
\( m/\ell \ 2070 \)