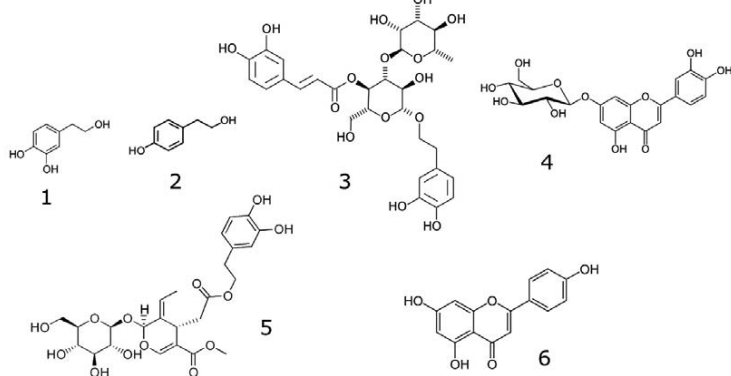
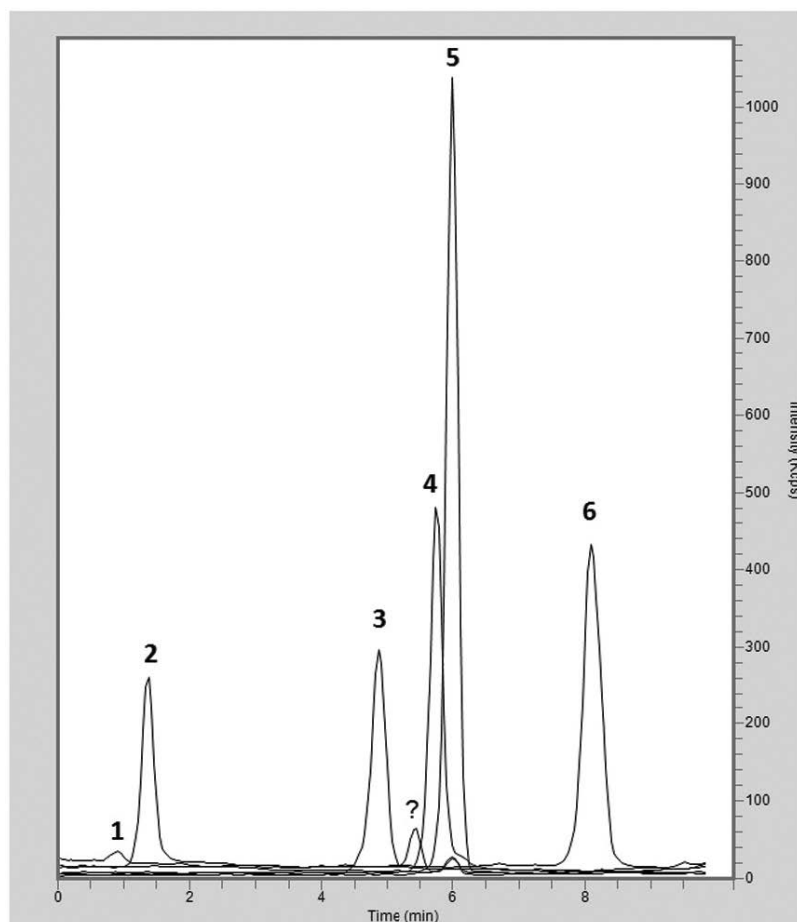


Compounds in Olive Leaves Extract

Click [HERE](#) for Column Ordering Information.

A commercial Olive Extract was analyzed using the Cogent Phenyl Hydride Column. Only one Oleuropein Peak was detected and it was Symmetrical and well Retained. The results were reproducible (%RSD = 0.2 for Retention Times).

According to the literature [1] the extract from Olive leaves should contain additional compounds. To confirm that the extract doesn't contain these compounds, spiked Olive leaves extract was analyzed. All these reported, Phenolic compounds were detected and Separated.



Peaks:

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MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com

1. Hydroxytyrosol m/z 177 [M + Na]⁺
 2. Tyrosol m/z 161 [M + Na]⁺
 3. Verbascoside m/z 647 [M + Na]⁺
 4. Luteolin-7-O-glucoside m/z 449 [M + H]⁺
 5. Oleuropein m/z 563 [M + Na]⁺
 6. Apigenin m/z 449 [M + H]⁺
- Not present: Peonidin 3-O-glucoside 463 m/z [M]⁺

Method Conditions

Column: Cogent Phenyl Hydride™, 4μm, 100Å

Catalog No.: 69020-05P-2

Dimensions: 2.1 x 50mm

Mobile Phase:

A: DI Water / 0.1% Formic Acid (v/v)

B: Acetonitrile / 0.1% Formic Acid (v/v)

Gradient:

Time (minutes)	%B
0	5
3	15
4	15
6	30
7	30
11	95
14	95
15	5

Post Time: 3 minutes

Injection vol.: 1μL

Flow rate: 0.4mL / minute

Detection: ESI – NEG – Perkin Elmer, Flexar SQ 300 Mass Spectrometer

Sample Preparation: Commercial Olive leaves extract was dissolved in DI Water and spiked at a concentration of 25ppm.

t₀: 0.4 minutes

[1] J.E. Hayes, P. Allen, N. Brunton, M.N. O'Grady, and J.P. Kerry, Food Chemistry, 126, (2011) 948-955



Attachment

No 298 Phenolic Compound Determination with LCMS pdf 0.3 Mb [Download File](#)

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