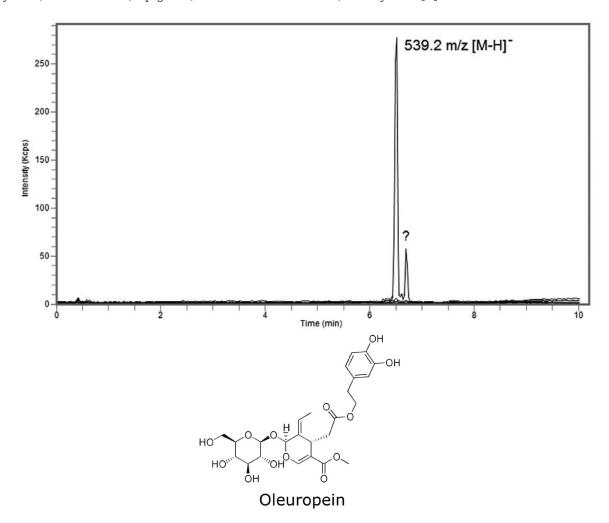


## High Efficiency Using a near-UHPLC Column for Oleuropein

In this Application Note, the Analyte Peak is symmetrical and well Retained while the results were very reproducible (%RSD = 0.06 for Retention Times). This Method can be used to analyze and evaluate the extraction of Olive Leaves.

According to the literature, Olive Leave Extracts should contain the following compounds: Oleuropein, Hydroxytyrosol, Verbascoside, Apigenin, Luteolin-7-O-Glucoside, and Tyrosol [1].



## Peak:

Oleuropein 539.2 m/z [M-H]-

## **Method Conditions**

Column: Cogent Bidentate C18 2.o, 2.2µm, 120Å

**Catalog No.**: 40218-05P-2 **Dimensions**: 2.1 x 50mm

**Mobile Phase:** 

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

**Gradient:** 

Time (minutes) %B

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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



0	5
3	15
4	15
6	30
7	30
11	95
14	95 95 5
15	5

Post Time: 3 minutes
Injection vol.: 1µL

Flow rate: 0.3mL / minutes

Detection: ESI - NEG - PerkinElmer Flexar SQ 300 Mass Spectrometer

Sample Preparation: Commercial Olive Leaves Extract was dissolved in DI Water at a concentration 10ppm.

**to**: 0.6 minutes

Note: Olive Leaves are food byproducts (after pruning of Olive Trees) which are full of bioactive compounds. These compounds are potent polyphenols, which show antibacterial, antiviral, anti-cancer, anti-inflammatory, and antioxidant activities. Different extraction procedures are used for selective extraction of polyphenols from olive leaves. An analytical method to monitor and evaluate the resulting extract is needed.

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



## Attachment

No 284 Oleuropein in Olive Leaves Extract Analyzed with LCMS pdf 0.2 Mb Download File

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