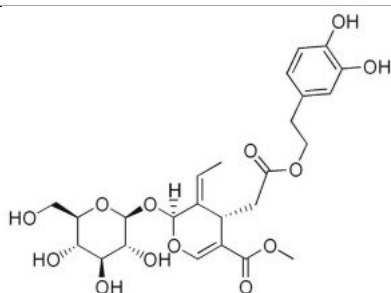
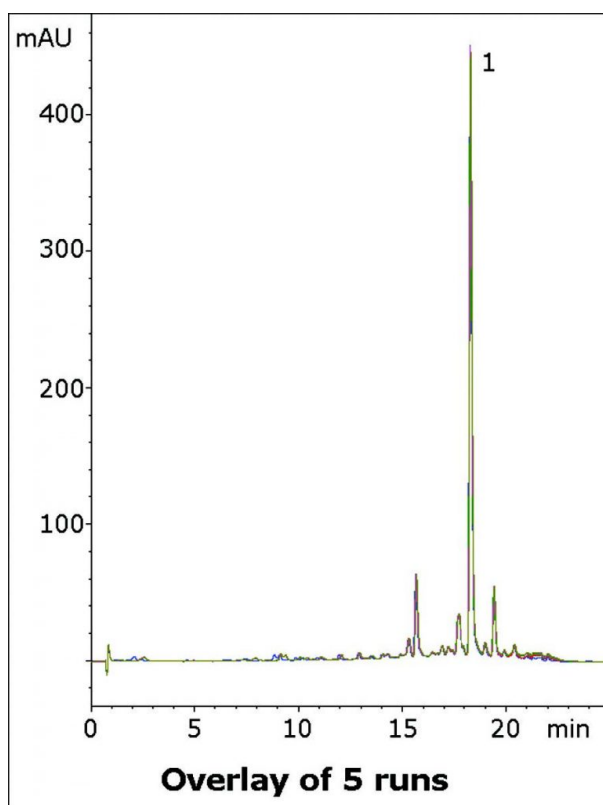


Oleuropein in Olive Leaves Extract Analyzed with HPLC - AppNote

Separation from Matrix Peaks

The main peak (Oleuropein) was observed to be well Separated from matrix components in this HPLC based approach. This Method is useful for analysts that are not using LCMS and therefore need good Chromatographic Separation in order to perform accurate Quantitation. The matrix Peaks do not co-elute with the main Peak, which is required for UV-based Methods. The Method is highly reproducible (5-run overlay shown in the Figure below).



Oleuropein

Oleuropein

Peak:

Method Conditions

Column: Cogent Bidentate C18 2.0™, 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 |
|----------------|----|
| 0 | 5 |
| 3 | 5 |
| 19 | 25 |
| 20 | 25 |
| 21 | 5 |

Post Time: 5 minutes

Injection vol.: 1µL

Flow rate: 0.3mL / minutes

Detection: UV @ 254nm

Sample Preparation: 10.0mg Olive Leaf Extract was added to 1mL volumetric flask. It was then diluted to mark with 50:50 Solvent A / Solvent B diluent. Then it was filtered with a 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp.).

t₀: 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.



Attachment

No 286 Oleuropein in Olive Leaves Extract Analyzed with HPLC pdf 0.3 Mb [Download File](#)

Printed from the Chrom Resource Center

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

Date: 05-11-2024