

0079 - Olive Leaf for Oleuropein by HPLC

Botanical Name: *Olea europaea*

Common Names: Olive tree

Plant Description:

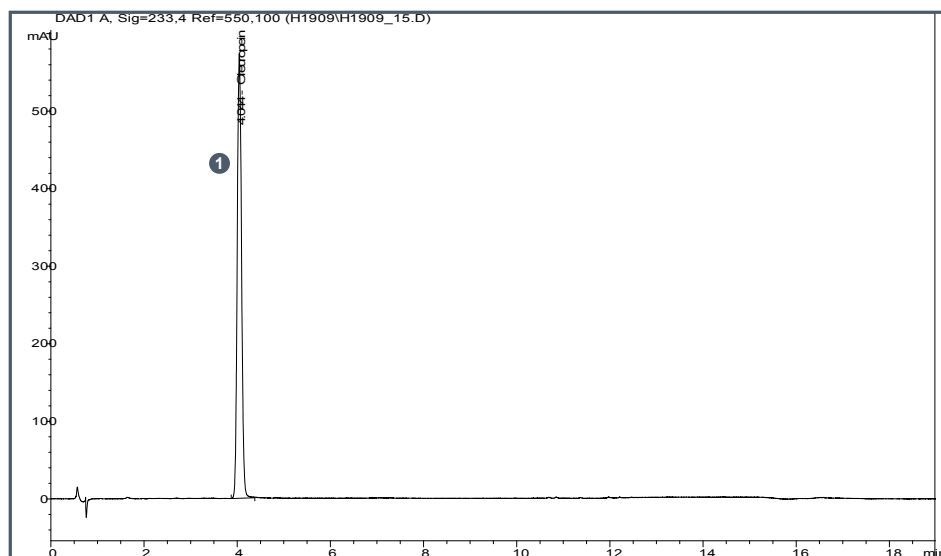
Olea europaea is an evergreen tree (or shrub) native to Asia, Africa, and the Mediterranean region. It rarely exceeds 8-15m in height, and has silvery, oblong leaves. The leaves are 2-5cm long, with a lustrous green shine on the topside and a silver- powder coating on the bottom.

Therapeutic Use Overview:

The olive leaf and its extracts have been in use since ancient times. The primary constituents in the leaves are believed to be the antioxidants oleuropein and hydroxytyrosol as well as other polyphenols and flavonoids. These compounds are supplied in liquid concentrate form, dried leaf tea, powder, or capsules. When consumed, the antioxidant properties of the compounds help repress activity of free radicals.



Representative HPLC Analysis: Standard Solution



Analytes:

① Oleuropein

Instrument Parameters

Column: Phenomenex Luna C18(2) -HST, 100 x 2.0 mm, 2.5 μm

Detection: UV-Vis @ 233 nm

Flow Rate: 0.5 mL/min

Injection Volume: 3 μL

Temperature: 50 °C

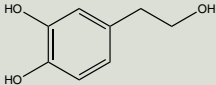
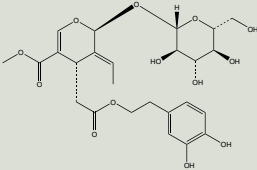
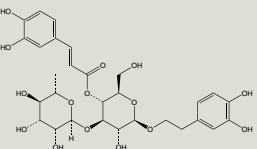
Mobile Phase A: ACN

Mobile Phase B: 0.1% H3PO4

Gradient Program

Time (min)	%A	%B
0	20	80
1	20	80
9	60	40
10	95	5
13	95	5
14	20	80
19	20	80

Phytochemical Reference Standards

Product Description And Details	Product ID	Qty
 <p>HYDROXYTYROSOL Grade: P CAS#: [10597-60-1] Chemical Formula: C₈H₁₀O₃ FW: 154.16</p>	ASB-00008728-005	5mg
 <p>OLEUROPEIN Grade: P CAS#: [32619-42-4] Chemical Formula: C₂₉H₃₆O₁₅ FW: 624.59</p>	ASB-00015310-005 ASB-00015310-010 ASB-00015310-025 ASB-00015310-100	5mg 10mg 25mg 100mg
 <p>VERBASCOSIDE Grade: P CAS#: [61276-17-3] Chemical Formula: C₂₅H₃₂O₁₃ FW: 540.51</p>	ASB-00022390-005 ASB-00022390-010	5mg 10mg

Reference Standards Kits

Product Name	Contents	Product ID	Qty
OLIVE LEAF(OLEUROPEIN) HPLC ANALYSIS KIT	Luna 2.5u C18(2)-HST 100x2.0 OLEUROPEIN(P)	KIT-00015350-0HK	1 x 25mg + C
OLIVE FRUIT STANDARDS KIT	HYDROXYTYROSOL(P) VERBASCOSIDE(P)	KIT-00022395-005	2 x 5mg

Botanical Reference Materials

Product Description	Grade	Product ID	Qty
OLIVE (OLEA EUROPAEA) LEAF RGBRM	RGBRM	ASB-00030858-005	5g