

LIFTMODE

LIFTMODE
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Chicago, IL 60605

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CERTIFICATE OF ANALYSIS

Olive Leaf Extract (*Olea europaea* leaf extract)

Material Lot #: 170404
Country of Origin: China

Manufacturer Analysis Date: 04/04/2017
Analysis Date: 04/08/2020
Retesting Date: 04/08/2023

Analysis	Claim	Result
Oleuropein	≥35%	38.3%

Test	Specification	Result
HPLC Assay	≥35%	38.3%
ICP-MS		
Arsenic	≤1.5 ppm	0.007 ppm
Lead	≤0.5 ppm	0.268 ppm
Cadmium	≤0.5 ppm	0.004 ppm
Mercury	≤0.5 ppm	≤0.001 ppm
Total Aerobic Count	≤1000 cfu/g	Conforms
Yeast & Mold	≤100 cfu/g	Conforms
Coliform	≤10 cfu/g	Conforms
<i>E.coli</i>	Negative	Conforms
Salmonella	Negative	Conforms

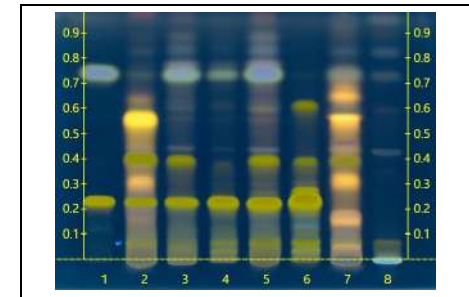
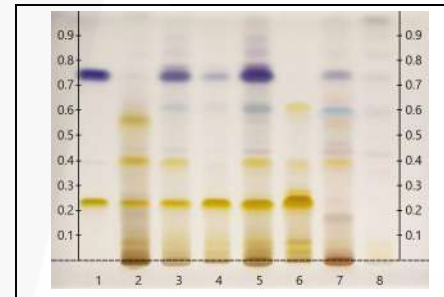
Olive Leaf Extract should be stored at or below room temperature in a tightly sealed durable container.
Olive Leaf Extract should be protected from excess heat, direct sunlight, excess humidity, and moisture.
Olive Leaf Extract has a retesting period of 3 years from the date of analysis when properly stored.

Certificate Issued To:
Synaptent
1442 W Fulton St
Chicago, IL 60607
United States



Work performed at:
Alkemist Labs
12661 Hoover Street
Garden Grove, CA 92841
714-754-HERB (4372)
714-668-9972 (FAX)
Sales@Alkemist.com
www.Alkemist.com

Certificate of Analysis: Olive Leaf Extract (170404) High Performance Thin-Layer Chromatography with Photo-Documentation



Company Name: Synaptent
Title: Olive Leaf Extract
Plant Part: leaf
Sample Received: 04/29/20
Sample Packaging: Foil Pouch
Form of Botanical: powdered extract
Appearance: Powder [silver foil pouch]
Lot Number: (170404) → Lane 6 (0.5µl)
Sample: 20120VNM_1
Latin Name: *Olea europaea* L. [Oleaceae]
Reference Sample: Lane 2(3µl) [CJ26010PB], Lane 3(3µl) [CJ36110SC1] *Olea europaea* (leaf); Lane 7(3µl) [CJ29011ND1] *Olea europaea* (pulp); Lane 8(3µl) [CJ34518AP4] *Olea europaea* (fruit); held at Alkemist Labs, Garden Grove, CA.
Analyst: A. Davis, N. Afendikova, M. Edwards, S. Kabbaj, N. Hoang, K. Tran, J. Lopez, J. Mares 135318
Sample Preparation: 0.3g+3mL Methanol, sonicate/heat at 50°C for 30 min.
Stationary Phase: Silica gel 60, HPTLC plates
Mobile Phase: Dichloromethane: Methanol: Water [8.5/1.5/0.15]
Detection: (1) Vanillin/Sulfuric, 110°C, 2min, vis (Reich, E., 2007)
(2) Vanillin/Sulfuric, 110°C, 2min, 366nm (Reich, E., 2007)
Reference Standard: Lane 1(3µl) Oleuropein (1212/0, XSYN), Methanol (0000240136, VWR), Oleoanolic acid (11 0915/0, XSYN), Methanol (0000245307, BDH)
Reference Source: French Pharmacopoeia 2008
IDT-SOP-72-01

Comments & Conclusions: Lane 6 is the test sample Olive Leaf Extract (170404) Lanes 2, 3, 7, 8 are the reference samples used for comparison. This test sample, Olive Leaf Extract (170404), is consistent with the chromatographic profile of the reference samples of *Olea europaea* used above. **This test sample Olive Leaf Extract (170404) has characteristics of a customized extract derived from *Olea europaea* leaf.**

NOTE: The above conclusion may be a function of the natural variance found in botanicals &/or the extraction process used to create specific extracts. The growing and drying conditions, age, seasonal variations, geographic location, extraction solvents, etc. all play a role in the phytochemical fingerprint of botanicals as well as their extracts; hence, chromatographic variations are expected.

Examined, Reviewed & Authorized by: Khanh N Tran, HPTLC, R&D Supervisor, Alkemist Labs



Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to 170404.
This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report is for the exclusive use of the party who requested the report and not for public dissemination or use by third parties, including for promotional purposes, without the prior written permission of Alkemist Labs, Inc. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented or abstracted in any manner. Any violation of these conditions renders the report and its results void. © 2020 Alkemist Labs, Inc. All Rights Reserved

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version:
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Report Date: 05/26/20



Certificate of Analysis

Client:
Synaptent LLC
47 W Polk Street, 100-241
Chicago, IL 60654

Sample Collected By: Client

Product Name	Olive Leaf Extract	Product Lot Number	170404
Report Date	04/08/20	Laboratory Number	20030031

Description	Method	Result
Oleuropein	HPLC	38.5%
Lead	ICP-MS	0.268 ppm
Arsenic	ICP-MS	0.007 ppm
Cadmium	ICP-MS	0.004 ppm
Mercury	ICP-MS	<0.001 ppm
Total Aerobic Count	Biolumix	<1,000 cfu/g
Yeast and Mold	Biolumix	<100 cfu/g
E. Coli	Biolumix	Absent
Coliform	Biolumix	<10 cfu/g
Salmonella	Biolumix	Absent

Oleuropein determined on the anhydrous basis

Collin Thomas 
Laboratory Manager

04/08/2020 *4/8/20*
Date

The result(s) stated in this report is only for the sample submitted. This report may not be reproduced in whole or in part, nor may any reference be made to the work, the result, or the company in any news release, public announcements or advertising without our prior written consent.

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CERTIFICATE OF ANALYSIS

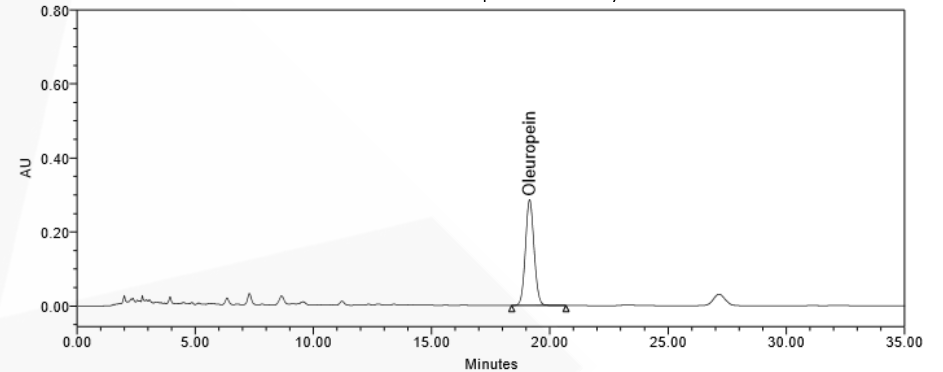


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Report Issued To: Synaptent
1442 W Fulton St
Chicago IL 60607
United States

Sample Name: Olive Leaf Extract
Description: Powdered extract; Powder [silver foil pouch]
Lot #: 170404
AL #: 20120VNM_2
Analysis ID: 135869
Received: 04/29/20

Determination of Oleuropein Content by HPLC



Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average As-Is (%)	Average Dried Basis (%)	Specification	Result
19.1	Oleuropein	38.261	38.317	38.289	39.749	NLT 40%	Pass

Chromatographic Conditions:

Method: USP 42 Olive Lea Dry Extract
The analytical method used has not been verified or validated for this product by Alkemist Labs.
Column: AP143 Luna 5µ C18 (2) 100A (250 x 4.6 mm)
Temperature: 25°C
Flow Rate: 1.5 mL/min
Injection Volume: 20 µL
UV Detection: 230 nm
Mobile Phase: 0.1% Phosphoric Acid in Water
Acetonitrile
HPLC Instrument: Alliance_3

Sample Preparation:

Mixed sample well and transferred approximately 110 mg of sample into a 50 mL volumetric flask, added 25 mL 20% acetonitrile in 0.1% phosphoric acid, vortexed 30 seconds, and sonicated for 5 minutes at room temperature. Let cool, filled to volume with 20% acetonitrile in 0.1% phosphoric acid. Inverted to mix and filtered through a 0.45 µm PTFE filter into HPLC vial for analysis.

Report Summary:

Conclusion: This "Olive Leaf Extract" test sample contains an average of 40% Oleuropein the on dried basis.
OOS Reference: N/A
Loss on Drying: 3.67%
Notebook Reference: LC146 p.168



Digitally signed by Kirtal Patel
DN: cn=Kirtal Patel, o=Alkemist Laboratories, ou=, email=kirtal@alkemist.com, c=US
Date: 2020.06.03 16:03:30 -0700
Adobe Acrobat version: 2020.099.201665

Analysis Date : 06/03/20 Analyzed By: C Deneuve

Authorized By: Kirtal Chopra, Lab Manager

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Main Benefits

- Products derived from the olive tree have been a staple of the Mediterranean diet for millennia, and studies indicate those who follow a Mediterranean-style diet have fewer health problems than the western diet.
- The primary component of our Olive Leaf Extract is Oleuropein, an antioxidant phenolic made up of hydroxytyrosol and elenolic acid.
- Oleuropein and its metabolites may improve cardiovascular health and increase neurotransmitters.

Main Cautions

- Olive Leaf Extract may lower blood pressure and cause light-headedness or fainting in those with low blood pressure.
- It is possible to be allergic to olive pollen, though there is not enough evidence to conclude whether this would cause allergies to Olive Leaf Extract. Cease use immediately if signs of an allergic reaction appear.
- Consult your physician before using Olive Leaf Extract if you are taking any medication.

Usage Tips

- A 0.625cc measuring scoop is included. One level scoop contains approximately one serving of approximately **400mg Olive Leaf Extract**. As a dietary supplement, take 1 serving up to 3 times per day with meals. Start at the lower suggested quantity to assess response.
- There are no known negative side effects attributed to Olive Leaf Extract, but caution is still advised for those taking other drugs or supplements that have **hypotensive effects**.
- Due to this extract's high bitter phenolic content, the use of capsules is recommended.
- This supplement is not intended to treat, diagnose, prevent, or cure any diseases. Consult your healthcare provider before use if you have a medical condition or if you are taking any prescription medications.
- It is safe to stack Olive Leaf Extract with other supplements as long as the amount consumed does not exceed the suggested serving size.
- The benefits of Olive Leaf Extract are most effective when they are supported by a healthy diet and plenty of exercise.

Olive Leaf Extract

