



# Accredited Laboratory

A2LA has accredited

**ALKEMIST LABS**

Garden Grove, CA

for technical competence in the field of

**Chemical Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of A2LA's R204 - *Specific Requirements - Food and Pharmaceutical Testing Laboratory Accreditation Program*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 27<sup>th</sup> day of February 2020

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 3851.01  
Valid to February 28, 2022

*For the types of tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.*



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ALKEMIST LABS  
 12661 Hoover St.  
 Garden Grove, CA 92841  
 Andrea Solar-My      Phone: 714-754-4372 ext. 216

CHEMICAL

Valid To: February 28, 2022

Certificate Number: 3851.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the laboratory's compliance with the A2LA Food Testing Program Requirements, containing 2018 "AOAC Guidelines for Laboratories Performing Microbiological and Chemical Analyses of Food, Dietary Supplements, and Pharmaceuticals"), accreditation is granted to this laboratory to perform the following tests on dietary supplements, crude plant matter, plant extracts, oils, raw materials, finished products, fungal, algal species, and cannabis:

<u>Test/Technology</u>	<u>Official Methods Used</u>	<u>In-house Test Method(s)</u>
<b><u>Dietary Supplement Testing</u></b> <sup>1</sup>		
<u>Dietary Supplement Identification and Qualitative Analysis by High Performance Thin-Layer Chromatography (HPTLC)</u> <sup>1</sup>	<ul style="list-style-type: none"> <li>• European Pharmacopoeia, Ph.Eur.</li> <li>• British Herbal Pharmacopoeia, BHP</li> <li>• American Herbal Pharmacopoeia, AHP</li> <li>• United States Pharmacopeia, USP</li> <li>• Pharmacopoeia of the People's Republic of China, PPRC</li> <li>• Official Methods of Analysis of AOAC International</li> </ul>	IDT-SOP-54-07 IDT-SOP-55-11 IDT-SOP-55-13 IDT-SOP-55-14 IDT-SOP-55-27 IDT-SOP-55-28 IDT-SOP-57-01 IDT-SOP-72-01 IDT-SOP-72-03 IDT-SOP-510-06
<u>Botanical Identification and Qualitative Analysis by Microscopy</u> <sup>1</sup>	<ul style="list-style-type: none"> <li>• European Pharmacopoeia, Ph.Eur.</li> <li>• British Herbal Pharmacopoeia, BHP</li> <li>• American Herbal Pharmacopoeia, AHP</li> <li>• United States Pharmacopeia, USP</li> <li>• Pharmacopoeia of the People's Republic of China, PPRC</li> <li>• Official Methods of Analysis of AOAC International</li> </ul>	MIC-SOP-54-04 MIC-SOP-54-05 MIC-SOP-54-06 MIC-SOP-510-07

<sup>1</sup>This portion of the scope meets the A2LA P112 Flexible Scope Policy.

<u>Test/Technology</u>	<u>Official Method Used</u>	<u>In-house Test Method</u>
<b><u>Cannabis Testing</u></b>		
<u>Cannabinoids Content by UPLC/UV in Powdered and Liquid Extracts of Cannabis and Hemp Oils (Cannabidiol (CBD), Cannabidiolic Acid (CBD-A), <math>\Delta^9</math>-Tetrahydrocannabinol (THC), <math>\Delta^9</math>-Tetrahydrocannabinolic Acid (THC-A), Cannabigerol (CBG))</u>	In-house Developed Test Method only	ATM-815-0229
<u>Cannabinoids Content by HPLC in Crude Hemp Materials, Hemp Powdered Extracts and Softgels (Cannabidiol (CBD), Cannabidiol (CBDV), Cannabidiol (CBD), Cannabigerol (CBG), Tetrahydrocannabivarin (THCV), Cannabidiolic Acid (CBDA), Cannabigerolic Acid (CBGA), Cannabinol (CBN), <math>\Delta^9</math>-Tetrahydrocannabinol (<math>\Delta^9</math>-THC), <math>\Delta^8</math>-Tetrahydrocannabinol (<math>\Delta^8</math>-THC), Cannabichromene (CBC), <math>\Delta^9</math>-tetrahydrocannabinolic Acid A (THCA-A))</u>	In-house Developed Test Method only	ATM-815-0300
<u>Terpenes Content by GC-FID in Hemp Crude Raw Materials (<math>\alpha</math>-Pinene, Camphene, <math>\beta</math>-Pinene, Myrcene, <math>\alpha</math>-Phellandrene, Carene, <math>\alpha</math>-Terpinene, Limonene, <math>\beta</math>-Ocimene, <math>\gamma</math>-Terpinene, Terpinolene, Linalool, (+)-Fenchol, 2-Ethylfenchol, <math>\alpha</math>-Terpineol, <math>\beta</math>-Caryophyllene, <math>\alpha</math>-Humulene, and Caryophyllene Oxide)</u>	In-house Developed Test Method only	ATM-815-0301