



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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CHEMICAL

Valid To: February 28, 2023

Certificate Number: 5499.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on cannabis dried flower and cannabis-infused products:

<u>Test</u>	<u>Test Method/Technology</u>
Cannabinoid Content (Potency):	
CBD	HPLC-UV / Determination and Quantification of Cannabinoids in Cannabis
CBDA	HPLC-UV / Determination and Quantification of Cannabinoids in Cannabis
CBG	HPLC-UV / Determination and Quantification of Cannabinoids in Cannabis
CBN	HPLC-UV / Determination and Quantification of Cannabinoids in Cannabis
THC	HPLC-UV / Determination and Quantification of Cannabinoids in Cannabis
THCA	HPLC-UV / Determination and Quantification of Cannabinoids in Cannabis
Heavy Metals:	
Arsenic	ICP-MS / Detection of Heavy Metals in Cannabis Using ICP-MS Detection of Heavy Metals in Cannabis Using ICP-MS
Cadmium	ICP-MS / Detection of Heavy Metals in Cannabis Using ICP-MS Detection of Heavy Metals in Cannabis Using ICP-MS
Lead	ICP-MS / Detection of Heavy Metals in Cannabis Using ICP-MS Detection of Heavy Metals in Cannabis Using ICP-MS
Mercury	ICP-MS / Detection of Heavy Metals in Cannabis Using ICP-MS Detection of Heavy Metals in Cannabis Using ICP-MS
Mycotoxins:	
Aflatoxin (B1, B2, G1, G2)	LCMS-MS / Detection of Residual Pesticides & Mycotoxins
Ochratoxin A	LCMS-MS / Detection of Residual Pesticides & Mycotoxins

<u>Test</u>	<u>Test Method/Technology</u>
Residual Pesticides (Category I and II):	
Abamectin	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Acephate	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Acequinocyl	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Acetamiprid	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Aldicarb	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Azoxystrobin	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Bifenazate	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Bifenthrin	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Boscalid	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Captan	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Carbaryl	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Carbofuran	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Chlordane	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Chlorfenapyr	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Chlorpyrifos	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Choranthraniliprole	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Clofentezine	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Coumaphos	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Cyfluthrin	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Cypermethrin	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Daminozide	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
DDVP (Dichlorvos)	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Diazinon	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Dimethoate	LCMS-MS / Detection of Residual Pesticides& Mycotoxins

<u>Test</u>	<u>Test Method/Technology</u>
Dimethomorph	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Ethoprop(hos)	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Etofenprox	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Etoxazole	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Fenhexamid	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Fenoxycarb	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Fenpyroximate	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Fipronil	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Flonicamid	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Fludioxonil	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Hexythiazox	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Imazalil	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Imidacloprid	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Kresoxim-methyl	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Malathion	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Metalaxyl	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Methoiocarb	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Methomyl	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Methyl parathion	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Mevinphos	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Myclobutanil	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Naled	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Oxamyl	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Paclobutrazol	LCMS-MS / Detection of Residual Pesticides& Mycotoxins

<u>Test</u>	<u>Test Method/Technology</u>
Pentachloronitrobenzene	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Permethrin	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Phosmet	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Piperonylbutoxide	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Prallethrin	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Propiconazole	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Propoxur	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Pyethrins	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Pyridaben	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Spinetoram	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Spinosad	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Spiromesifen	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Spirotetramat	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Spiroxamine	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Tebuconazole	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Thiacloprid	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Thiamethoxam	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Trifloxystrobin	LCMS-MS / Detection of Residual Pesticides& Mycotoxins
Residual Solvents and Processing Chemicals (Category I and II):	
1,2-Dichloroethane	GCMS / GC MS for the Detection of Residual Solvents
Acetone	GCMS / GC MS for the Detection of Residual Solvents
Acetonitrile	GCMS / GC MS for the Detection of Residual Solvents
Benzene	GCMS / GC MS for the Detection of Residual Solvents
Butane	GCMS / GC MS for the Detection of Residual Solvents

<u>Test</u>	<u>Test Method/Technology</u>
Chloroform	GCMS / GC MS for the Detection of Residual Solvents
Ethanol	GCMS / GC MS for the Detection of Residual Solvents
Ethyl acetate	GCMS / GC MS for the Detection of Residual Solvents
Ethyl ether	GCMS / GC MS for the Detection of Residual Solvents
Ethylene oxide	GCMS / GC MS for the Detection of Residual Solvents
Heptane	GCMS / GC MS for the Detection of Residual Solvents
Hexane	GCMS / GC MS for the Detection of Residual Solvents
Isopropyl alcohol	GCMS / GC MS for the Detection of Residual Solvents
Methanol	GCMS / GC MS for the Detection of Residual Solvents
Methylene chloride	GCMS / GC MS for the Detection of Residual Solvents
Pentane	GCMS / GC MS for the Detection of Residual Solvents
Propane	GCMS / GC MS for the Detection of Residual Solvents
Toluene	GCMS / GC MS for the Detection of Residual Solvents
Total xylenes (ortho-, meta-, para-)	GCMS / GC MS for the Detection of Residual Solvents
Trichloroethylene	GCMS / GC MS for the Detection of Residual Solvents
Water Activity	Water Activity Meter / Detection of Water Activity in Cannabis and Cannabis Products
Moisture Content	Moisture Balance / Moisture Content in Cannabis Flower

BIOLOGICAL

<u>Test/Technology</u>	<u>Test Method</u>
Foreign Matter	Microscope / Detection of Foreign Materials
Microbial Impurities:	
Pathogenic <i>Aspergillus</i> spp. (<i>A. fumigatus</i> , <i>A. flavus</i> , <i>A. niger</i> , <i>A. terreus</i>)	PCR / Identification of Microbials in Cannabis and other Cannabis Products
<i>Salmonella</i> spp.	PCR / Identification of Microbials in Cannabis and other Cannabis Products
Shiga toxin-producing <i>Escherichia coli</i>	PCR / Identification of Microbials in Cannabis and other Cannabis Products



Accredited Laboratory

A2LA has accredited

NEELUM HOLDINGS, LLC

Greenfield, 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 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 4th day of June 2021.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5499.01
Valid to February 28, 2023

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