



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Hidrolab Colombia Limitada
Autopista Medellin Km 2.5 Via parcelas de Cota Km 1.3
Conjuto de Bogegas AEPI BG 3A
Cota-Cundinamarca, Colombia

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 07 May 2023
Certificate Number: AT-2978



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Hidrolab Colombia Limitada

Autopista Medellin Km 2.5 Via parcelas de Cota Km 1.3
Conjunto de Bodegas AEPI BG 3A
Cota-Cundinamarca, Colombia

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TESTING

Valid to: **May 7, 2023**

Certificate Number: **AT-2978**

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Metals <ul style="list-style-type: none"> • Arsenic • Cadmium • Mercury • Lead • Antimony • Barium • Cobalt • Copper • Chrome • Tin • Lithium • Molybdenum • Nickel • Vanadium 	USP NF 43<232>; USP NF 43<233>	Dried flower, extract, and derivatives of cannabis	ICP-Mass

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
<p>Cannabinoid Profile</p> <ul style="list-style-type: none"> • Cannabichromene (CBD) • Cannabicyclol acid (CBLA) • Cannabicyclol (CBL) • Cannabidiol (CBD) • Cannabidiolic acid (CBDA) • Cannabidiolic acid (CBDA) • Cannabidivarin (CBDV) • Cannabidivarinic acid (CBDVA) • Cannabigerol (CBG) • Cannabigerolic acid (CBGA) • Cannabinol (CBN) • Tetrahydrocannabinarin (THCV) • Δ8-tetrahydrocannabinol (Δ8-THC) • Δ9-tetrahydrocannabinol (Δ9-THC) • Δ9-tetrahydrocannabinolic acid (THCA-A) 	<p>PFQ-CB-001 Procedure of potency and profile of cannabinoids in dried flower by HPLC with PDA - Version 0</p>	<p>Dried flower, extract and derivatives of cannabis</p>	<p>HPLC-PDA</p>
<p>Potency</p>	<p>PFQ-CB-001 Procedure of potency and profile of cannabinoids in dried flower by HPLC with PDA - Version 0</p>	<p>Dried flower, extract, and derivatives of cannabis</p>	<p>Theoretical calculation</p>

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Foreign material	PFQ-CB-007 Procedure of determination of foreign material in dried flower of cannabis – Version 0	Dried flower of cannabis	Visual aspect
Activity of Water	PFQ-CB-003 Procedure of determination of humidity and activity water in dried flower of cannabis – Version 2	Dried flower of cannabis	Measuring equipment activity water
Moisture	PFQ-CB-003 Procedure of determination of humidity and activity water in dried flower of cannabis – Version 2	Dried flower of cannabis	Oven, Balance
Moisture	AOAC 925.10-1925 Solids (total) and loss drying (moisture)	Derivatives of cannabis	Oven, Balance

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
<p>Solvents</p> <ul style="list-style-type: none"> • 1,2-Dichloroethane • Isopropyl alcohol • Ethyl acetate • Acetone • Acetonitrile • Benzene • Chloroform • Methylene Chloride (Dichloromethane) • Diethyl ether (Ethyl Ether) • Ethanol • Methanol • n-Heptane • n-Hexane • n-Pentane • Toluene • Trichloroethylene • m-p Xylenes • O-Xylenes 	<p>PFQ-CB-005 Procedure for the determination of solvents in cannabis extract and derivatives by GC-MS with headspace - Version 0</p>	<p>Extract and derivatives of cannabis</p>	<p>GC-Mass with headspace</p>
<p>Terpenes</p> <ul style="list-style-type: none"> • (-)-beta-Pinene • (-)-Guaiol • (-)-Isopulegol • (-)-α-Bisabolol 	<p>PFQ-CB-006 Procedure of determination of terpenes in cannabis and derivatives product by GC-Mass with headspace - Version 0</p>	<p>Dried flower, extract, and derivatives of cannabis</p>	<p>GC-MS with headspace</p>



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<p>Terpenes</p> <ul style="list-style-type: none"> • Camphene • d-Limonene • Geraniol • Linalool • Cis Nerolidol • Trans Nerolidol • Ocimene • p-Isopropyltoluene (p-cymene) • α-Terpineol • γ-Terpineol • Terpinolene • α-Humulene • α-Pinene • α-Terpinene • β-Caryophyllene • β-Myrcene • γ-Terpinene • Carene • Sabinene • p-Mentha-1,5-diene • Trans-β-ocimen • 1,8-Cineole (Eucalyptol) • Sabinene hydrate • Fenchone • Fenchyl alcohol • Camphor • Isoborneol • Hexahydrothymol • Borneol • Nerol • (+)-Pulegone • Geranylacetate • α-Cedrene • Valencene • (-)-Caryophyllene oxide • (+)-Cedrol 	<p>PFQ-CB-006 Procedure of determination of terpenes in cannabis and derivatives product by GC-MS with headspace - Version 0</p>	<p>Dried flower, extract, and derivatives of cannabis</p>	<p>GC-MS with headspace</p>
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Microbiological

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Aspergillus spp	USP NF 43 Chapter <61> and <62>	Dried flower, extract, and derivatives of cannabis	Microscope Presence/Absence
Gram negative bacteria resistant to bile	USP NF 43 Chapter <61> and <62>	Dried flower, extract, and derivatives of cannabis	Multiples tubes (NMP)
Escherichia coli	USP NF 43 Chapter <61> and <62>	Dried flower, extract, and derivatives of cannabis	Presence / Absence, PCR
Fungi and Yeasts	USP NF 43 Chapter <61> and <62>	Dried flower, extract, and derivatives of cannabis	Plate count
Pseudomonas aeruginosa	USP NF 43 Chapter <61> and <62>	Dried flower, extract, and derivatives of cannabis	Presence / Absence, PCR
Total bacteria count	USP NF 43 Chapter <61> and <62>	Dried flower, extract, and derivatives of cannabis	Plate count
Salmonella Spp	USP NF 43 Chapter <61> and <62>	Dried flower, extract, and derivatives of cannabis	Presence / Absence, PCR
Aspergillus spp	PMB-CB-008 Procedure for determination of microbiological quality in extract and product of cannabis by qPCR - Version 0	Extract and derivatives of cannabis	qPCR
Gram negative bacteria resistant to bile	PMB-CB-008 Procedure for determination of microbiological quality in extract and product of cannabis by qPCR - Version 0	Extract and derivatives of cannabis	qPCR
Escherichia coli	PMB-CB-008 Procedure for determination of microbiological quality in extract and product of cannabis by qPCR - Version 0	Extract and derivatives of cannabis	qPCR
Fungi and Yeasts	PMB-CB-008 Procedure for determination of microbiological quality in extract and product of cannabis by qPCR - Version 0	Extract and derivatives of cannabis	qPCR
Pseudomonas aeruginosa	PMB-CB-008 Procedure for determination of microbiological quality in extract and product of cannabis by qPCR - Version 0	Extract and derivatives of cannabis	qPCR

Microbiological

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Total bacteria count	PMB-CB-008 Procedure for determination of microbiological quality in extract and product of cannabis by qPCR - Version 0	Extract and derivatives of cannabis	qPCR
Salmonella Spp	PMB-CB-008 Procedure for determination of microbiological quality in extract and product of cannabis by qPCR - Version 0	Extract and derivatives of cannabis	qPCR
Aspergillus spp	PMB-CB-009 Procedure for determination of microbiological quality in dried flower of cannabis by qPCR - Version 0	Dried flower of cannabis	qPCR
Gram negative bacteria resistant to bile	PMB-CB-009 Procedure for determination of microbiological quality in dried flower of cannabis by qPCR - Version 0	Dried flower of cannabis	qPCR
Escherichia coli	PMB-CB-009 Procedure for determination of microbiological quality in dried flower of cannabis by qPCR - Version 0	Dried flower of cannabis	qPCR
Fungi and Yeasts	PMB-CB-009 Procedure for determination of microbiological quality in dried flower of cannabis by qPCR - Version 0	Dried flower of cannabis	qPCR
Pseudomonas aeruginosa	PMB-CB-009 Procedure for determination of microbiological quality in dried flower of cannabis by qPCR - Version 0	Dried flower of cannabis	qPCR
Total bacteria count	PMB-CB-009 Procedure for determination of microbiological quality in dried flower of cannabis by qPCR - Version 0	Dried flower of cannabis	qPCR

Microbiological

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Salmonella Spp	PMB-CB-009 Procedure for determination of microbiological quality in dried flower of cannabis by qPCR - Version 0	Dried flower of cannabis	qPCR

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT -2978.



R. Douglas Leonard Jr., VP, PILR SBU

