



Certificate of Analysis
NuLeaf 4850mg CBD Extract

Test Result UID: ANL0024134
 Washington State Lot Inventory ID:
 Washington State Lab Inventory ID:
 Date Tested: 06/17/2019
 Serving Size: =

Photographs



Summary

Cannabinoids:	THC Total: 1.23 mg/g	CBD Total: 65.43 mg/g
	--	--
Terpene Total:	5.32 mg/g	
	--	
Microbial:	Pass	
Pesticides:	Not Tested	
Heavy Metals:	Not Tested	
Water Activity:	Not Tested	
Solvent Total:	< 20 ppm	

Mycotoxins (Method: ELISA)

Aflatoxins Total:	< 4 ppb	Pass	Pass
Ochratoxin A Total:	< 4 ppb	Pass	



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Potency Profile (Method: HPLC-DAD)

CBG-A	< 0.01 mg/g	--
CBG	< 0.01 mg/g	--
CBG TOTAL	< 0.01 mg/g	--
(CBG-A * 0.878 + CBG) ¹		
Δ9-THC-A	< 0.01 mg/g	--
Δ9-THC	1.23 mg/g	--
Δ9-THCV	< 0.01 mg/g	--
Δ8-THC	< 0.01 mg/g	--
CBN	< 0.01 mg/g	--
THC-TOTAL	1.23 mg/g	--
(THC-A * 0.877 + THC) ¹		
CBD-A	< 0.01 mg/g	--
CBD	65.43 mg/g	--
CBDV-A	< 0.01 mg/g	--
CBDV	< 0.01 mg/g	--
CBD-TOTAL	65.43 mg/g	--
(CBD-A * 0.877 + CBD) ¹		
CBC	2.13 mg/g	--
ACTIVATED-TOTAL	68.79 mg/g	--
(Δ9THC + 9-THCV + Δ8THC + CBN + CBD + CBDV + CBG + CBC) ²		
TOTAL DETECTED CANNABINOIDS	68.79 mg/g	--
(CBDV TOTAL + THC TOTAL + CBD TOTAL + CBG TOTAL + D8THC + CBN + CBC + THCV)		

1 - Cannabinoid totals are adjusted to account for the decarboxylation of the cannabinoid acids. The reported total is the amount of the activated cannabinoid that would be if all of the carboxylic acid has been removed through decarboxylation.

2 - Cannabinoids that have been activated through decarboxylation (curing/storage of flowers, or heating/cooking of edibles, tinctures, & concentrates)



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Terpene Profile (Method: HS-GC-FID)

Alpha Pinene	< 0.01 mg/g	--
Beta Pinene	< 0.01 mg/g	--
Myrcene	< 0.01 mg/g	--
Ocimene	< 0.01 mg/g	--
Limonene	< 0.01 mg/g	--
Terpinolene	< 0.01 mg/g	--
Linalool	< 0.01 mg/g	--
Caryophyllene	3.29 mg/g	--
Humulene	2.02 mg/g	--
Terpene Total	5.32 mg/g	--



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 Ministry of Hemp

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I-502 Microbial Analysis (Method: Plate Counting)

Bile Tolerant Gram Negative Bacteria Count	< 20 CFU/g	Pass
Salmonella spp.		Pass
Escherichia coli		Pass

Washington State Criteria:
 Counts not to exceed:
 10,000 Bile-tolerant Gram Negative Bacteria,
 and *E coli* and *Salmonella* not detected in one gram

Non-Mandatory Microbial Analysis (Method: Plate Counting)

Total Aerobic Plate Count	< 20 CFU/g
Total Yeast and Mold Count	< 20 CFU/g
Coliforms	< 20 CFU/g

TNTC = Too Numerous to Count



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Residual Solvent Test (Method: HS-GC-FID)

Propane	< 20 ppm	Methanol	< 20 ppm
Isobutane	< 20 ppm	Acetonitrile	< 20 ppm
Butane	< 20 ppm	Dichloromethane	< 20 ppm
Ethanol	Not Tested	Ethyl Acetate	< 20 ppm
Acetone	< 20 ppm	Chloroform	< 2 ppm
Toluene	< 20 ppm	Cyclohexane	< 20 ppm
Pentane	< 20 ppm	Benzene	< 2 ppm
Isopropanol	< 20 ppm	Ethyl Benzene	< 20 ppm
Hexane	< 20 ppm	m + p Xylenes	< 20 ppm
Heptane	< 20 ppm	o Xylene	< 20 ppm
Isopentane	Not Tested	Total Xylenes	< 20 ppm
Tetrahydrofuran	Not Tested		
Total Solvents			< 20 ppm



Tested By

ANALYTICAL 360

Cannabis Analysis Laboratory

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Ministry of Hemp

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Analytical 360, LLC certifies that the results presented on the previous 6 pages are true and correct to the best of our knowledge. These results relate only to the sample provided by the client to Analytical 360, LLC.

Approved by: Paul D. Matthews, Ph.D.
Lab Director/Chief Science Officer

UBI: 603120434
Lab: 0004

Reference Lab:

Analytical 360 subcontracts the following assays:

Mycotoxins performed by Capitol Analysis (Lab #0022)

Labtech Notes

- None