



CERTIFICATE OF ANALYSIS

Customer: Columbia Willamette Holdings, LLC

Collection Date: 06/21/2019
Order Date: 06/21/2019
Report Date: 06/26/2019
Order #701636
Batch # *0002

Initial Weight: 145020.00/mg
Specimen Weight: 91.63/mg
Specimen Type: Extract
Extracted From: Industrial Hemp
Description: Decarded Crude

Potency						(HPLC)		
Analyte	mg/g	%	Analyte	mg/g	%	Analyte	mg/g	%
CBC	30.5700	3.0570	CBCA	0	ND	CBD	631.2000	63.1200
CBDA	0	ND	CBDV	4.9000	0.4900	CBDVA	0	ND
CBG	4.5180	0.4518	CBGA	0.6885	0.0689	CBL	0.8922	0.0892
CBN	2.0440	0.2044	CBNA	0	ND	Delta-8-THC	0	ND
Delta-9-THC	21.1800	2.1180	THCA-A	0	ND	THCV	0.3390	0.0339
THCVA	0	ND	Total CBD	631.2000	63.1200	Total THC	21.1800	2.1180

Pesticides						(LCMS/MS)
Analyte	ppm	Analyte	ppm	Analyte	ppm	
Abamectin	ND	Acephate	ND	Acequinocyl	ND	
Acetamiprid	ND	Aldicarb	ND	Azoxystrobin	ND	
Bifenazate	ND	Bifenthrin	ND	Boscalid	ND	
Carbaryl	ND	Carbofuran	ND	Chlorantraniliprole	ND	
Chlorpyrifos	ND	Clofentezine	ND	Cypermethrin	ND	
Daminozide	ND	Diazinon	ND	Dichlorvos	ND	
Dimethoate	ND	Ethoprophos	ND	Etofenprox	ND	
Etoxazole	ND	Fenoxycarb	ND	Fipronil	ND	
Fonicamid	ND	Fludioxonil	ND	Hexythiazox	ND	
Imazalil	ND	Imidacloprid	ND	Kresoxim Methyl	ND	
Malathion A	ND	Metaxyl	ND	Methiocarb	ND	
Methomyl	ND	MCK-264	ND	Myclobutanil	ND	
Naled	ND	Oxamyl	ND	Pacllobutrazol	ND	
Parathion-methyl	ND	Permethrin	ND	Phosmet	ND	
Piperonylbutoxide	ND	Prallethrin	ND	Propiconazole	ND	
Propoxur	ND	Pyrethrins	ND	Pyridaben	ND	
Spinosyn A	ND	Spinosyn D	ND	Spiromesifen	ND	
Spirotetramat	ND	Spiroxamine	ND	Tebuconazole	ND	
Thiacloprid	ND	Thiamethoxam	ND	Trifloxystrobin	ND	

Thomas Farrell, MD
Lab Director

* Total CBD = CBD + (CBD-A * 0.877). Total THC = THCA-A * 0.877 + Delta 9 THC. T-Caryophyllene = Trans-Caryophyllene, ND = Not Detected, QNS = Quantity Not Sufficient. (%) = Percent, (ppm) = Parts per Million, (cfu) = Colony Forming Unit, (ppb) = Parts per Billion, (µg/Kg) = Microgram per Kilogram, (mg/g) = Milligram per Gram.
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Residual Solvents (GC/GCMS)

Analyte	ppm	Analyte	ppm	Analyte	ppm
Acetone	ND	Benzene	ND	Chloroform	ND
Ethanol	ND	I-Butane	ND	Isopropanol	ND
Methanol	ND	N-Butane	ND	Pentane	ND
Toluene	ND				

Heavy Metals (ICP-MS)

Analyte	ppb	Analyte	ppb	Analyte	ppb
Arsenic (As)	ND	Cadmium (Cd)	ND	Lead (Pb)	ND
Mercury (Hg)	ND				

Mycotoxins (LCMS/MS)

Analyte	(ug/Kg)	Analyte	(ug/Kg)	Analyte	(ug/Kg)
Aflatoxin B1	ND	Aflatoxin B2	ND	Aflatoxin G1	ND
Aflatoxin G2	ND	Ochratoxin A	ND		

Terpenes (GC/GCMS)

Analyte	mg/g	%	Analyte	mg/g	%	Analyte	mg/g	%
3-Carene	0	ND	Alpha-Bisabolol	0	ND	Alpha-Pinene	0	ND
Alpha-Terpinene	0	ND	Alpha-Terpineol	0	ND	Aromadendrene	0	ND
Beta-Myrcene	0	ND	Beta-Pinene	0	ND	Camphene	0	ND
Fenchol	0	ND	Gamma-Terpinene	0	ND	Gamma-Terpineol	0	ND
Geraniol	0	ND	Guaiol	0	ND	Humulene	0.3700	0.0370
Isopulegol	0	ND	Linalool	0	ND	Nerolidol-1	0	ND
Nerolidol-2	0	ND	Ocimene-1	0	ND	Ocimene-2	0	ND
P-Cymene	0	ND	R-Limonene	0	ND	Terpinolene	0	ND
Trans-Caryophyllene	0.7800	0.0780						

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