

Certificate of Analysis

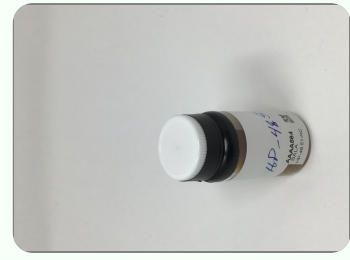
Order #: BAL191218-010068 Order Date: 2019-12-18 Collection Date: 2019-12-19 Report Date: 2019-12-26

Batch #: HP-48.51-HC
 Sample #: AAAA564
 Specimen Type: CBD/HEMP Derivative Products
 Extracted From: CO2
 Description: NDT Distillate 88% CBD

Method: SOP-3



Potency Tested	Residual Solvents Passed	Heavy Metals Passed
Mycotoxins Passed	Microbiology Passed	Terpenes Tested
Pesticides Passed		



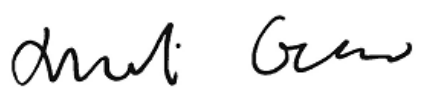
The photos on this report are of a sample collected by the lab and may vary from the final packaging.


CBD Total 76.730%	THC Total Not Detected	CBG Total Not Detected
CBN Total Not Detected	Other Cannabinoids Total 0.431%	Total Detected Cannabinoids 77.161%

Potency - 11 (Tested)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC		<LOQ	0.001	CBD	767.300	76.730	0.001	CBDA		<LOQ	0.001
CBDV	4.307	0.431	0.001	CBG		<LOQ	0.001	CBGA		<LOQ	0.001
CBN		<LOQ	0.001	Delta-8-THC		<LOQ	0.001	Delta-9-THC		<LOQ	0.001
THCA-A		<LOQ	0.001	THCV		<LOQ	0.001	Total CBD	767.300	76.730	0.001
Total THC		<LOQ	0.001								

*Total CBD = CBD + (CBD-A * 0.877), *Total THC = THCA-A * 0.877 + Delta 9 THC, *CBG Total = (CBGA * 0.877) + CBG, *CBN Total = (CBNA * 0.877) + CBN, *Other Cannabinoids Total = CBC + CBDV + THCV + THCV-A, *Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THCV + THCV-A (mg/g) = Milligram per Gram, LOQ = Limit of Quantitation


 Xueli Gao Lab Toxicologist
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Certificate of Analysis

Order #: BAL191218-010068 Order Date: 2019-12-18 Collection Date: 2019-12-19 Report Date: 2019-12-26

Batch #: HP-48.51-HC Method: SOP-3
 Sample #: AAAA564
 Specimen Type: CBD/HEMP Derivative Products
 Extracted From: CO2
 Description: NDT Distillate 88% CBD



Residual Solvents (Extract Only) (Passed) (GC/GCMS)

Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
Acetone	5000	<LOQ	87.9	Benzene	1.6	<LOQ	1.6	Chloroform	53	<LOQ	53
Ethanol	5000	<LOQ	26.7	Hexane	60	<LOQ	36.6	I-Butane	5000	<LOQ	100
Isopropanol	5000	<LOQ	52.3	Methanol	3000	<LOQ	87.9	N-Butane	5000	<LOQ	200
Pentane	5000	<LOQ	389.5	Toluene	890	<LOQ	38.4				

(ppm) = Parts per Million, (ppm) = (µg/g), , LOQ = Limit of Quantitation

Heavy Metals (Passed) (ICP-MS)

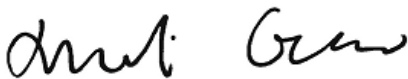
Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Arsenic (As)	200	<LOQ	100	Cadmium (Cd)	200	<LOQ	100	Lead (Pb)	500	<LOQ	100
Mercury (Hg)	100	<LOQ	100								

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

Mycotoxins (Passed) (LCMS/MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Aflatoxin B1		<LOQ	6	Aflatoxin B2		<LOQ	6	Aflatoxin G1		<LOQ	6
Aflatoxin G2		<LOQ	6	Aflatoxin Total	20	<LOQ	6	Ochratoxin A	20	<LOQ	12

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation



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Batch #: HP-48.51-HC Method: SOP-3
Sample #: AAAA564
Specimen Type: CBD/HEMP Derivative Products
Extracted From: CO2
Description: NDT Distillate 88% CBD



Microbiology #5 (Petrifilm/Plating) (Passed) (Petrifilm)

Analyte	Result (cfu/g)	LOQ (cfu/g)	Analyte	Result (cfu/g)	LOQ (cfu/g)	Analyte	Result (cfu/g)	LOQ (cfu/g)
Aerobic Bacteria	<10	10	E. Coli / Coliform	<10	10	Yeast/Mold	<10	10

(cfu/g) = Colony Forming Unit per Gram, , LOQ = Limit of Quantitation

Terpenes - FL (Tested) (GC/GCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
(+)-Cedrol		<LOQ	0.001	(R)-(+)-Limonene		<LOQ	0.001	3-Carene		<LOQ	0.001
Alpha-Bisabolol	3.060	0.306	0.001	alpha-Cedrene		<LOQ	0.001	alpha-Humulene		<LOQ	0.001
alpha-Phellandren-e		<LOQ	0.001	alpha-Pinene		<LOQ	0.001	alpha-Terpinene		<LOQ	0.001
Borneol		<LOQ	0.001	beta-Myrcene		<LOQ	0.001	beta-Pinene		<LOQ	0.001
Caryophyllene oxide	3.690	0.369	0.001	Camphene		<LOQ	0.001	Camphors		<LOQ	0.001
Fenchyl Alcohol		<LOQ	0.001	cis-Nerolidol		<LOQ	0.001	Eucalyptol		<LOQ	0.001
Guaiol	1.690	0.169	0.001	Farnesene		<LOQ	0.001	Fenchone		<LOQ	0.001
Isopulegol		<LOQ	0.001	gamma-Terpinene		<LOQ	0.001	Geraniol		<LOQ	0.001
Ocimene		<LOQ	0.001	Hexahydrothymol		<LOQ	0.001	Geranyl acetate		<LOQ	0.001
Sabinene Hydrate		<LOQ	0.001	Linalool		<LOQ	0.001	Isoborneol		<LOQ	0.001
trans-Caryophyllene	1.700	0.170	0.001	Pulegone		<LOQ	0.001	Nerol		<LOQ	0.001
				Terpineol		<LOQ	0.001	Sabinene		<LOQ	0.001
				trans-Nerolidol	1.660	0.166	0.001	Terpinolene		<LOQ	0.001
								Valencene		<LOQ	0.001

(mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation



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 Description: NDT Distillate 88% CBD

Method: SOP-3



Pesticides (Passed)

(LCMS/MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Abamectin	100	<LOQ	28.23	Acephate	100	<LOQ	30	Acequinocyl	100	<LOQ	48
Acetamiprid	100	<LOQ	30	Aldicarb	100	<LOQ	30	Azoxystrobin	10	<LOQ	10
Bifenazate	100	<LOQ	30	Bifenthrin	100	<LOQ	30	Chlorfenapyr	100	<LOQ	48
Chlorpyrifos	100	<LOQ	30	Clofentezine	200	<LOQ	30	Coumaphos	100	<LOQ	30
Cyfluthrin	100	<LOQ	30	Cypermethrin	500	<LOQ	30	Daminozide	100	<LOQ	30
DDVP(Dichlorvos)	100	<LOQ	30	Diazinon	100	<LOQ	30	Dimethoate	100	<LOQ	30
Dimethomorph	200	<LOQ	30	Ethoprop(hos)	100	<LOQ	30	Etofenprox	100	<LOQ	30
Etoazole	100	<LOQ	30	Fenhexamid	100	<LOQ	30	Fenoxycarb	100	<LOQ	30
Fipronil	100	<LOQ	30	Fonicamid	100	<LOQ	30	Fludioxonil	100	<LOQ	30
Hexythiazox	100	<LOQ	30	Imazalil	100	<LOQ	30	Imidacloprid	400	<LOQ	30
Kresoxim Methyl	100	<LOQ	30	Malathion A	200	<LOQ	30	Metalaxyl	20	<LOQ	10
Methiocarb	50	<LOQ	30	Methomyl	100	<LOQ	30	Mevinphos	100	<LOQ	30
Myclobutanil	100	<LOQ	30	Naled	250	<LOQ	30	Oxamyl	500	<LOQ	30
Paclobutrazol	100	<LOQ	30	Parathion-methyl	100	<LOQ	48	Pentachloronitrobenzene	150	<LOQ	30
Permethrin	100	<LOQ	30	Phosmet	100	<LOQ	30	Piperonylbutoxide	3000	<LOQ	30
Prallethrin	100	<LOQ	30	Propiconazole	100	<LOQ	30	Propoxur	100	<LOQ	30
Pyrethrins	500	<LOQ	30	Pyridaben	200	<LOQ	30	Spinetoram	200	<LOQ	30
Spinosyn A	100	<LOQ	30	Spinosyn D	100	<LOQ	30	Spiromesifen	100	<LOQ	30
Spirotetramat	100	<LOQ	30	Spiroxamine	100	<LOQ	30	Tebuconazole	100	<LOQ	30
Thiacloprid	100	<LOQ	30	Thiamethoxam	500	<LOQ	30	Trifloxystrobin	100	<LOQ	30

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