



CERTIFICATE OF ANALYSIS



Customer: Bluebird Botanicals - Louisville, CO 80027

Order #: 709896
Batch #: 0465 S
Order Date: 12/10/2019
Collection Date: 12/10/2019
Report Date: 12/17/2019

Specimen Type: Extract
Description: Hemp CBD Oil
Extracted From: HEMP
Method: SOP-3

Initial Gross Weight: 39456.00(mg)
Specimen Weight: 116.09(mg)
Density: 0.9333(g/ml)

Terpenes - FL

Terpenes - FL								(GC/GCMS)			
Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
(+)-Cedrol		ND	0.001	(R)-(+)-Limonene	0.760	0.076	0.001	3-Carene		ND	0.001
Alpha-Bisabolol		ND	0.001	alpha-Cedrene		ND	0.001	alpha-Humulene		ND	0.001
alpha-Phellandrene		ND	0.001	alpha-Pinene	4.050	0.405	0.001	alpha-Terpinene		ND	0.001
beta-Myrcene	0.990	0.099	0.001	beta-Pinene		ND	0.001	Borneol		ND	0.001
Camphene		ND	0.001	Camphors		ND	0.001	Carvophyllene oxide		ND	0.001
cis-Nerolidol		ND	0.001	Eucalyptol		ND	0.001	Farnesene		ND	0.001
Fenchone		ND	0.001	Fenchyl Alcohol		ND	0.001	gamma-Terpinene		ND	0.001
Geraniol		ND	0.001	Geranyl acetate		ND	0.001	Guaiol		ND	0.001
Hexahydrothymol		ND	0.001	Isoborneol		ND	0.001	Isopulegol		ND	0.001
Linalool		ND	0.001	Nerol		ND	0.001	Ocimene		ND	0.001
Pulegone		ND	0.001	Sabinene		ND	0.001	Sabinene Hydrate		ND	0.001
Terpineol		ND	0.001	Terpinolene		ND	0.001	trans-beta-Ocimene		ND	0.001
trans-Caryophyllene		ND	0.001	trans-Nerolidol		ND	0.001	Valencene		ND	0.001

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Lab Toxicologist

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Principal Scientist

* Total CBD = CBD + (CBD-A * 0.877). Total THC = THCA-A * 0.877 + Delta 9 THC, ND = <LOQ, T-Caryophyllene = Trans-Caryophyllene, <LOQ = Less Than Limit of Quantitation, QNS = Quantity Not Sufficient. (%) = Percent, (ppm) = Parts per Million, (ppb) = Parts per Billion, (µg/Kg) = Microgram per Kilogram, (mg/g) = Milligram per Gram, ppm = (µg/g), ppb = (µg/kg).

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