



CERTIFICATE OF ANALYSIS



Customer: Balanced Health Botanicals - Sheridan, CO 80110

Order #: 706823	Specimen Type: Edible	Initial Gross Weight: 128238.00(mg)
Batch #: 190926	Description: 30mg Gummies 25 Count	Specimen Weight: 1540.40(mg)
Order Date: 10/04/2019	Extracted From: Industrial Hemp	Net Weight: 4020.16(mg)
Collection Date: 10/04/2019	Method: SOP-3	
Report Date: 10/11/2019		

Potency - 11 Details

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC		ND	0.001	CBD	7.931	0.793	0.001	CBDA		ND	0.001
CBDV	0.022	0.002	0.001	CBG		ND	0.001	CBGA		ND	0.001
CBN		ND	0.001	Delta-8-THC		ND	0.001	Delta-9-THC		ND	0.001
THCA-A		ND	0.001	THCV		ND	0.001	Total CBD	7.931	0.793	0.001
Total THC		ND	0.001								

Potency - 11 Totals

Analyte	Result (mg)	(%)
CBD Total	31.885	0.793
THC Total	ND	ND
CBG Total	ND	ND
CBN Total	ND	ND
Other Cannabinoids Total	0.088	0.002
Total Detected Cannabinoids	31.973	0.795

Pesticides (Passed)

Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
Abamectin	0.500	<LOQ	0.100	Acephate	0.400	<LOQ	0.100	Acequinocyl	2.000	<LOQ	0.750
Acetamiprid	0.200	<LOQ	0.100	Aldicarb	0.400	<LOQ	0.100	Azoxystrobin	0.200	<LOQ	0.100
Bifenazate	0.200	<LOQ	0.100	Bifenthrin	0.200	<LOQ	0.100	Boscalid	0.400	<LOQ	0.100
Carbaryl	0.200	<LOQ	0.100	Carbofuran	0.200	<LOQ	0.100	Chlorantraniliprole	0.200	<LOQ	0.100
Chlorpyrifos	0.200	<LOQ	0.100	Clofentezine	0.200	<LOQ	0.100	Cypermethrin	1.000	<LOQ	0.100
Daminozide	1.000	<LOQ	0.100	Diazinon	0.200	<LOQ	0.100	Dichlorvos	0.100	<LOQ	0.100
Dimethoate	0.200	<LOQ	0.100	Ethoprophos	0.200	<LOQ	0.100	Etofenprox	0.400	<LOQ	0.100
Etoxazole	0.200	<LOQ	0.100	Fenoxycarb	0.200	<LOQ	0.100	Fipronil	0.400	<LOQ	0.100
Flonicamid	1.000	<LOQ	0.100	Fludioxonil	0.400	<LOQ	0.100	Hexythiazox	1.000	<LOQ	0.100
Imazalil	0.200	<LOQ	0.100	Imidacloprid	0.400	<LOQ	0.100	Kresoxim Methyl	0.400	<LOQ	0.100
Malathion A	0.200	<LOQ	0.100	Metalaxyl	0.200	<LOQ	0.100	Methiocarb	0.200	<LOQ	0.100
Methomyl	0.400	<LOQ	0.100	MGK-264	0.200	<LOQ	0.100	Myclobutanil	0.200	<LOQ	0.100
Naled	0.500	<LOQ	0.100	Oxamyl	1.000	<LOQ	0.100	Pacllobutrazol	0.400	<LOQ	0.100
Parathion-methyl	0.200	<LOQ	0.250	Permethrin	0.200	<LOQ	0.100	Phosmet	0.200	<LOQ	0.100
Piperonylbutoxide	2.000	<LOQ	0.100	Prallethrin	0.200	<LOQ	0.100	Propiconazole	0.400	<LOQ	0.100
Propoxur	0.200	<LOQ	0.100	Pvretthrins	1.000	<LOQ	0.100	Pyridaben	0.200	<LOQ	0.100
Spinosyn A	0.200	<LOQ	0.100	Spinosyn D	0.200	<LOQ	0.100	Spiromesifen	0.200	<LOQ	0.100
Spirotetramat	0.200	<LOQ	0.100	Spiroxamine	0.400	<LOQ	0.100	Tebuconazole	0.400	<LOQ	0.100
Thiacloprid	0.200	<LOQ	0.100	Thiamethoxam	0.200	<LOQ	0.100	Trifloxystrobin	0.200	<LOQ	0.100

Thomas Farrell, MD
Lab Director

** 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. *Total (mg) = Total (%) * Net Weight(mg), 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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Terpenes						(GC/GCMS)					
Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
3-Carene	ND		0.001	Alpha-Bisabolol	ND		0.001	Alpha-Pinene	ND		0.002
Alpha-Terpinene	ND		0.001	Alpha-Terpineol	ND		0.001	Aromadendrene	ND		0.001
Beta-Myrcene	ND		0.001	Beta-Pinene	ND		0.001	Camphene	ND		0.001
Fenchol	ND		0.002	Gamma-Terpinene	ND		0.001	Gamma-Terpineol	ND		0.002
Geraniol	ND		0.001	Guaiol	ND		0.001	Humulene	ND		0.001
Isopulegol	ND		0.001	Linalool	ND		0.001	Nerolidol-1	ND		0.001
Nerolidol-2	ND		0.001	Ocimene-1	ND		0.001	Ocimene-2	ND		0.001
P-Cymene	ND		0.001	R-Limonene	ND		0.000	Terpinolene	ND		0.001
Trans-Caryophyllene	ND		0.001								

Residual Solvents (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	5,000.000	<LOQ	87.900	Benzene	1,600	<LOQ	1,600	Chloroform	53,000	<LOQ	53,000
Ethanol	5,000.000	<LOQ	26,700	Hexane	60,000	<LOQ	36,600	I-Butane	5,000.000	<LOQ	100,000
Isopropanol	5,000.000	<LOQ	52,300	Methanol	3,000.000	<LOQ	87,900	N-Butane	5,000.000	<LOQ	200,000
Pentane	5,000.000	<LOQ	389,500	Toluene	890,000	<LOQ	38,400				

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Heavy Metals (Passed)				(ICP-MS)			
Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Arsenic (As)	500.000	<LOQ	100.000	Cadmium (Cd)	500.000	<LOQ	100.000
Mercury (Hg)	500.000	<LOQ	100.000	Lead (Pb)	500.000	<LOQ	100.000

Mycotoxins (Passed)				(LCMS/MS)			
Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Aflatoxin B1	<LOQ	6.000	6.000	Aflatoxin B2	<LOQ	6.000	6.000
Aflatoxin G2	<LOQ	6.000	6.000	Aflatoxin Total	20.000	<LOQ	6.000
				Ochratoxin A	20.000	<LOQ	12.000

Moisture		(Moisture Meter)
Analyte	Result (%)	
Moisture	4.580	

Pathogenic Microbiology (Passed)			(Micro Array)		
Analyte	Result		Analyte	Result	
Aspergillus flavus	Absence		Aspergillus fumigatus	Absence	
Aspergillus terreus	Absence		Salmonella	Absence	
			Aspergillus niger	Absence	
			STEC E. Coli	Absence	

Water Activity (Passed)			(AquaLab 4TE)
Analyte	Action Level (aw)	Result (aw)	
Water Activity	0.850	0.656	

Filtration and Foreign Material (Passed)			(Electronic Balance)		
Analyte	Action Level (area ratio)	Result (area ratio)	Analyte	Action Level (mg/Kg)	Result (mg/Kg)
Covered Area	0.250	0.000	Feces	0.500	0.000
			Weight %	5.000	0.000

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