

Blue Genius Hemp

Christmas Knoll Tree Farm
 8150 Crowley Rd
 Rickreall, OR 97371
 503-999-9622

Sample Type: Harvested Industrial Hemp
 Sample Date: 10/23/2019
 Analysis Date: 10/24/2019
 Report Date: 10/31/2019

Metric Batch ID:
 Metric Sample ID:

Harvest/Process Date: 10/23/2019
 Report ID:
LS-191031-20

Potency

Potency Analysis Date: 10/24/2019
 Potency Batch ID: CAN_102419C
 Potency Method: JAOAC 2015.1

Moisture Content: 10.9%
 Water Activity: 0.517 a_w
 Water Activity Method: AOAC 978.18

6.68%

Total
 CBD

0.274%




Total
 THC

Samples: WCS-GXB-WDD



Analyte	Description	LOQ	RPD	Min.	Max.	Conc.	Unit: %
Δ9THC	Delta-9 Tetrahydrocannabinol	0.020	-	-	-	0.0359	
THCA	Tetrahydrocannabinolic acid	0.020	-	-	-	0.272	
CBD	Cannabidiol	0.020	-	-	-	0.205	
CBDA	Cannabidiolic acid	0.020	-	-	-	7.38	
Δ8THC	Delta-8 Tetrahydrocannabinol*	0.020	-	-	-	ND	
THCV	Tetrahydrocannabivarin*	0.020	-	-	-	<LOQ	
CBG	Cannabigerol*	0.020	-	-	-	0.0320	
CBGA	Cannabigerolic acid*	0.020	-	-	-	0.227	
CBC	Cannabichromene*	0.020	-	-	-	0.0316	
CBCA	Cannabichromenic acid*	0.020	-	-	-	0.341	
CBN	Cannabinol	0.020	-	-	-	<LOQ	
Total THC	Δ9THC + (THCA × 0.877)	-	-	-	-	0.274	
Total CBD	CBD + (CBDA × 0.877)	-	-	-	-	6.68	
Total		-	-	-	-	8.53	

Compliance

Pesticides	Within limits	Analysis Date: 10/30/2019	Pass 
Moisture Content	Within limits	Analysis Date: 10/24/2019	Pass 
Water Activity	Within limits	Analysis Date: 10/24/2019	Pass 


 Bryce Kidd, Ph.D.
 Lab Director


 Aaron Troyer
 Chief Science Officer



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Pesticides Sample Data

Pesticides Analysis Date: 10/30/2019 Method: EN 15662 Pass 
 Pesticides Batch ID: PST_103019A Unit: µg/g (ppm)

Analyte	WCS-GXB-WDD	Limits	LOQ	Notes	Status	Analyte	WCS-GXB-WDD	Limits	LOQ	Notes	Status
Abamectin	ND	0.5	0.1		Pass	Metalaxyl	ND	0.2	0.1		Pass
Acephate	ND	0.4	0.1		Pass	Methiocarb	ND	0.2	0.1		Pass
Acequinocyl	ND	2.0	1.5		Pass	Methomyl	ND	0.4	0.1		Pass
Acetamiprid	ND	0.2	0.1		Pass	Methyl Parathion	ND	0.2	0.2		Pass
Aldicarb	ND	0.4	0.1		Pass	MGK-264	ND	0.2	0.2		Pass
Azoxystrobin	ND	0.2	0.1		Pass	Myclobutanil	ND	0.2	0.1		Pass
Bifenazate	ND	0.2	0.1		Pass	Naled	ND	0.5	0.2		Pass
Bifenthrin	ND	0.2	0.1		Pass	Oxamyl	ND	1.0	0.1		Pass
Boscalid	ND	0.4	0.1		Pass	Paclobutrazol	ND	0.4	0.1		Pass
Carbaryl	ND	0.2	0.1		Pass	Permethrins	ND	0.2	0.1		Pass
Carbofuran	ND	0.2	0.1		Pass	Phosmet	ND	0.2	0.1		Pass
Chlorantraniliprole	ND	0.2	0.1		Pass	Piperonyl Butoxide	ND	2.0	0.1		Pass
Chlorfenapyr	ND	1.0	0.1		Pass	Prallethrin	ND	0.2	0.1		Pass
Chlorpyrifos	ND	0.2	0.1		Pass	Propiconazole	ND	0.4	0.1		Pass
Clofentezine	ND	0.2	0.1		Pass	Propoxur	ND	0.2	0.1		Pass
Cyfluthrin	ND	1.0	0.5		Pass	Pyrethrins	ND	1.0	0.5		Pass
Cypermethrin	ND	1.0	0.1		Pass	Pyridaben	ND	0.2	0.1		Pass
Daminozide	ND	1.0	0.5		Pass	Spinosad	ND	0.2	0.1		Pass
Diazinon	ND	0.2	0.1		Pass	Spiromesifen	ND	0.2	0.1		Pass
Dichlorvos (DDVP)	ND	1.0	0.5		Pass	Spirotetramat	ND	0.2	0.1		Pass
Dimethoate	ND	0.2	0.1		Pass	Spiroxamine	ND	0.4	0.1		Pass
Ethoprophos	ND	0.2	0.1		Pass	Tebuconazole	ND	0.4	0.1		Pass
Etofenprox	ND	0.4	0.1		Pass	Thiacloprid	ND	0.2	0.1		Pass
Etoxazole	ND	0.2	0.1		Pass	Thiamethoxam	ND	0.2	0.1		Pass
Fenoxycarb	ND	0.2	0.1		Pass	Trifloxystrobin	ND	0.2	0.1		Pass
Fenpyroximate	ND	0.4	0.1		Pass						
Fipronil	ND	0.4	0.1		Pass						
Flonicamid	ND	1.0	0.1		Pass						
Fludioxonil	ND	0.4	0.1		Pass						
Hexythiazox	ND	1.0	0.1		Pass						
Imazalil	ND	0.2	0.1		Pass						
Imidacloprid	ND	0.4	0.1		Pass						
Kresoxim-methyl	ND	0.4	0.1		Pass						
Malathion	ND	0.2	0.1		Pass						

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Pesticides Quality Control Data

Pesticides QC Analysis Date: 10/30/2019
 Pesticides QC Batch ID: PST_103019A
 Method: EN 15662
 Unit: µg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes	Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Abamectin	ND	0.1	1.34	1.00	134	50 - 150		Metalaxyl	ND	0.1	0.992	1.00	99.2	50 - 150	
Acephate	ND	0.1	0.499	1.00	49.9	50 - 150	LR	Methiocarb	ND	0.1	1.23	1.00	123	50 - 150	
Acequinocyl	ND	1.5	ND	1.00	0.00	50 - 150	ND	Methomyl	ND	0.1	0.723	1.00	72.3	50 - 150	
Acetamiprid	ND	0.1	0.992	1.00	99.2	50 - 150		Methyl Parathion	ND	0.2	0.250	1.00	25.0	30 - 150	LR
Aldicarb	ND	0.1	0.838	1.00	83.8	50 - 150		MGK-264	ND	0.2	0.743	0.600	124	50 - 150	
Azoxystrobin	ND	0.1	0.908	1.00	90.8	50 - 150		Myclobutanil	ND	0.1	0.963	1.00	96.3	50 - 150	
Bifenazate	ND	0.1	0.687	1.00	68.7	50 - 150		Naled	ND	0.2	0.615	1.00	61.5	50 - 150	
Bifenthrin	ND	0.1	1.10	1.00	110	50 - 150		Oxamyl	ND	0.1	0.709	1.00	70.9	50 - 150	
Boscalid	ND	0.1	0.825	1.00	82.5	50 - 150		Paclobutrazol	ND	0.1	0.904	1.00	90.4	50 - 150	
Carbaryl	ND	0.1	0.810	1.00	81.0	50 - 150		Permethrins	ND	0.1	1.17	1.00	117	50 - 150	
Carbofuran	ND	0.1	0.918	1.00	91.8	50 - 150		Phosmet	ND	0.1	1.15	1.00	115	50 - 150	
Chlorantraniliprole	ND	0.1	1.43	1.00	143	50 - 150		Piperonyl Butoxide	ND	0.1	0.859	1.00	85.9	50 - 150	
Chlorfenapyr	ND	0.1	0.693	1.00	69.3	50 - 150		Prallethrin	ND	0.1	0.969	1.00	96.9	50 - 150	
Chlorpyrifos	ND	0.1	0.953	1.00	95.3	50 - 150		Propiconazole	ND	0.1	1.11	1.00	111	50 - 150	
Clofentezine	ND	0.1	1.33	1.00	133	50 - 150		Propoxur	ND	0.1	0.937	1.00	93.7	50 - 150	
Cyfluthrin	ND	0.5	0.777	1.00	77.7	50 - 150		Pyrethrins	ND	0.5	2.17	1.00	217	50 - 150	HB
Cypermethrin	ND	0.1	1.26	1.00	126	50 - 150		Pyridaben	ND	0.1	1.07	1.00	107	50 - 150	
Daminozide	ND	0.5	ND	1.00	0.00	10 - 150	ND	Spinosad	ND	0.1	1.12	1.00	112	50 - 150	
Diazinon	ND	0.1	0.794	1.00	79.4	50 - 150		Spiromesifen	ND	0.1	1.33	1.00	133	50 - 150	
Dichlorvos (DDVP)	ND	0.5	0.919	1.00	91.9	50 - 150		Spirotetramat	ND	0.1	0.981	1.00	98.1	50 - 150	
Dimethoate	ND	0.1	0.904	1.00	90.4	50 - 150		Spiroxamine	ND	0.1	0.706	1.00	70.6	50 - 150	
Ethoprophos	ND	0.1	0.865	1.00	86.5	50 - 150		Tebuconazole	ND	0.1	1.04	1.00	104	50 - 150	
Etofenprox	ND	0.1	1.15	1.00	115	50 - 150		Thiacloprid	ND	0.1	1.15	1.00	115	50 - 150	
Etoazole	ND	0.1	1.05	1.00	105	50 - 150		Thiamethoxam	ND	0.1	0.950	1.00	95.0	50 - 150	
Fenoxycarb	ND	0.1	1.29	1.00	129	50 - 150		Trifloxystrobin	ND	0.1	0.937	1.00	93.7	50 - 150	
Fenpyroximate	ND	0.1	1.11	1.00	111	50 - 150									
Fipronil	ND	0.1	0.997	1.00	99.7	50 - 150									
Flonicamid	ND	0.1	0.767	1.00	76.7	50 - 150									
Fludioxonil	ND	0.1	0.589	1.00	58.9	50 - 150									
Hexythiazox	ND	0.1	0.791	1.00	79.1	50 - 150									
Imazalil	ND	0.1	0.787	1.00	78.7	50 - 150									
Imidacloprid	ND	0.1	0.889	1.00	88.9	50 - 150									
Kresoxim-methyl	ND	0.1	0.782	1.00	78.2	50 - 150									
Malathion	ND	0.1	1.10	1.00	110	50 - 150									



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Qualifier Flag Descriptions

- J** Reported result is an estimate - the value is less than the minimum calibration level but greater than the estimated detection limit (EDL)
- U** The analyte was not detected in the sample at the estimated detection limit (EDL)
- E** Exceeds calibration range
- D** Dilution data - result was obtained from the analysis of a dilution
- B** Analyte found in sample and associated blank
- C** Co-eluting compound
- R** Relative Percent Difference (RPD) outside control limits
- NR** Analyte not reported because of problems in sample preparation or analysis
- ND** Non-Detect
- X** Results from reinjection/repeat/re-column data
- EMC** Estimated maximum possible concentration - indicates that a peak is detected but did not meet the method required criteria
- M** Manual integration
- PS** Peaks split
- HB** Control acceptance criteria are exceeded high and the associated sample is below the detection limit
- LB** Control acceptance criteria are exceeded low and the associated sample exceeds the regulatory limit
- ME** Marginal Exceedance
- LR** Low Recovery Analyte
- LOQ** Limit of Quantitation