

Queen of Hearts

 Sample ID: BIA241014S0005
 Strain: Queen of Hearts

 Matrix: Plant
 Type: Flower - Cured
 Sample Size: 10.25 g
 Lot#: CLTV0058-10

 Produced:
 Collected:
 Received: 10/14/2024
 Completed: 10/17/2024
 Batch#:

 Client
Old Growth Vermont
 Lic. # CLTV0058
 1057 BRUCE BADGER MEMORIAL HWY
 DANVILLE, VT 05828


Summary

Test	Date Tested	Result
Sample		Complete
Cannabinoids	10/15/2024	Complete
Moisture	10/15/2024	9.50% - Complete
Water Activity	10/15/2024	0.461 aw - Complete
Terpenes	10/15/2024	Complete
Microbials	10/17/2024	Complete

Cannabinoids

Completed

26.58%		0.07%		32.13%	
Total THC		Total CBD		Total Cannabinoids	
Analyte	LOQ	Results	Results	Mass	
	mg/g	%	mg/g	mg/serving	
CBDVa	0.0005	<LOQ	<LOQ		
CBDV	0.0012	<LOQ	<LOQ		
CBDa	0.0008	0.08	0.8		
CBGa	0.0008	1.68	16.8		
CBG	0.0019	0.15	1.5		
CBD	0.0019	<LOQ	<LOQ		
THCV	0.0021	<LOQ	<LOQ		
CBN	0.0013	<LOQ	<LOQ		
Δ9-THC	0.0020	0.73	7.3		
Δ8-THC	0.0019	<LOQ	<LOQ		
Δ10-THC	0.0002	<LOQ	<LOQ		
CBC	0.0024	<LOQ	<LOQ		
THCa	0.0034	29.48	294.8		
Total THC		26.58	265.82		
Total CBD		0.07	0.74		
Total		32.13	321.27	0.00	

Analyst: 048

Cannabinoids Methodology: High Performance Liquid Chromatography (HPLC) using PerkinElmer FLEXAR™ with Photo Diode Array Detector (PDA)

Total CBD and total THC are calculated values, to account for assumed decarboxylation from the acid form (THCA or CBDA) to the neutral form, causing weight loss of the acid group. These values are calculated as follows:

$$\text{Total THC} = (\text{THCA} \times 0.877) + \Delta 9\text{-THC}$$

$$\text{Total CBD} = (\text{CBDA} \times 0.877) + \text{CBD Reagent}$$

Blanks: < LOQs for all analytes

LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

Measurement of Uncertainty (MU): the parameter, associated with the result of a measurement, that characterizes the dispersion of the values that could reasonably be attributed to the particular quantity subject to measurement. Δ9-THC MU = ±0.005% Total THC MU = ±0.007%

All other cannabinoid MU values are available upon request.

All moisture and water activity analysis is determined by dewpoint measurement using an AQUALAB water activity meter.




 Luke Emerson-Mason
 Laboratory Director
 10/17/2024

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 (866) 506-5866
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Pest Comp QH, WR, BM

 Sample ID: BIA241014S0004
 Strain: QH, WR, BM

 Matrix: Plant
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Pesticides

Completed

Category 1 Pesticides	LOQ	Results
	PPM	PPM
Chlorpyrifos	0.0010	<LOQ
Imazalil	0.0010	<LOQ
Category 2 Pesticides	LOQ	Results
	PPM	PPM
Abamectin	0.0100	<LOQ
Acephate	0.0010	<LOQ
Acequinocyl	0.0010	<LOQ
Azoxystrobin	0.0010	<LOQ
Bifenazate	0.0010	<LOQ
Bifenthrin	0.0010	<LOQ
Carbaryl	0.0010	<LOQ
Cypermethrin	0.0100	<LOQ
Etoxazole	0.0010	<LOQ
Imidacloprid	0.0010	<LOQ
Myclobutanil	0.0010	<LOQ
Spinosyn A	0.0010	<LOQ
Spinosyn D	0.0010	<LOQ

Analyst: 048

Pesticides Methodology: Liquid Chromatography with Tandem Mass Spectrometry using PerkinElme QSight® LX50 UHPLC and QSight 220 Mass Spectrometer

LOQ = The lowest quantity this method can reliably detect. Any pesticide or mycotoxins that was not detected is assumed to be less than the stated LOQ (<LOQ).

ppm = parts per million

All moisture and water activity analysis is determined by dewpoint measurement using an AQUALAB water activity meter.




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Terpenes

Completed

Analyte	LOQ	Results	Results
	mg/g	mg/g	%
β-Myrcene	0.010	22.472	2.247
α-Pinene	0.010	2.743	0.274
β-Caryophyllene	0.010	2.531	0.253
Ocimene	0.010	2.033	0.203
Limonene	0.010	1.701	0.170
α-Humulene	0.010	1.023	0.102
β-Pinene	0.010	0.736	0.074
α-Terpinene	0.010	0.575	0.058
Guaiol	0.010	0.392	0.039
cis-Nerolidol	0.010	0.273	0.027
trans-Nerolidol	0.010	0.239	0.024
Linalool	0.010	0.162	0.016
α-Bisabolol	0.010	0.157	0.016
Camphene	0.010	0.046	0.005
p-Cymene	0.010	0.033	0.003
3-Carene	0.010	<LOQ	<LOQ
Caryophyllene Oxide	0.010	<LOQ	<LOQ
Eucalyptol	0.010	<LOQ	<LOQ
γ-Terpinene	0.010	<LOQ	<LOQ
Geraniol	0.010	<LOQ	<LOQ
Isopulegol	0.010	<LOQ	<LOQ
Terpinolene	0.010	<LOQ	<LOQ
Total		35.117	3.512

Primary Aromas

 Hops	 Pine	 Cinnamon	 Earthy	 Orange
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Analyst: 045

LOQ = The lowest quantity this method can reliably detect. Any terpene that was not detected is assumed to be less than the stated LOQ (<LOQ).

Terpene Methodology: Headspace Sampler, Gas Chromatography-Mass Spectrometry (GC-MS), using Perkin Elmer Clarus® SQ8 GC MS

Reagent Blanks: < LOQs for all analytes

All results reflect dry weight of material, based on % moisture of the sample.

All moisture and water activity analysis is determined by dewpoint measurement using an AQUALAB water activity meter.




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Pathogens

Completed

Pathogens	LOD	Results
	CFU/g	CFU/g
Aspergillus	5	Not Detected
Shiga Toxin E. Coli	5	Not Detected
Salmonella SPP	5	Not Detected

Analyst: 018**Test Methodology:** Bio-Rad IQ-Check PCR Kits

cfu/g = colony forming units per gram

LOD = The lowest quantity that this method can reliably detect. Any microbial growth that was not detected is assumed to be less than the stated LOD (<LOD).

Reagent Blanks: <LOD for all analytes

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