

Kush Mints

Overall Batch Result **PASS**



Total THC
25.3713%

Total CBD
0.1308%

Total Terpenes
1.7372%

Water Activity
0.5561 a_w

Total Cannabinoids
28.1386%

Sum Cannabinoids
31.7370%

Moisture Content
12.43%

Batch

Lot / Batch: **LBF-OP778-KM**
Source UID: **1A4060300003F10000006858**
Package UID: **1A4060300003F10000006874**

Distributor

Ladybug Farms LLC
1400 San Juan Road
Royal Oaks CA 95076
CT11-0000255-LIC

Producer

Ladybug Farms LLC
1400 San Juan Road
Royal Oaks CA 95076
CCL18-0003249

Sample

Account: **Ladybug Farms LLC**
Sample ID: **1921091**
Sample Matrix: **Flower - Cured**
Batch Size: **16625 g**
Sample Size: **61 g**
Package Size: **N/A**
Serving Size: **N/A**
Collected Date: **06/08/22**
Received Date: **06/09/22**
Completed Date: **06/14/22**

Cannabinoids

TESTED

Terpenes

TESTED

Heavy Metals

PASS

Microbials

PASS

Mycotoxins

PASS

Chemical Residues

PASS

Foreign Materials

PASS

Water Activity

PASS

Quality Review

Dr. Jerry White PhD

Jerry White, PhD
Chief Scientific Officer
06/14/22

Data Review

Bryan Zahakaylo

Bryan Zahakaylo
Analyst
06/14/22



Cannabinoids Analysis TESTED

Analytical Technique: **HPLC UV VIS**
 Instrumentation: **2030C**
 Method: **SOP-001**
 Analysis Performed: **06/13/22**
 Panel Completed: **06/13/22**

Sum Cannabinoids: **31.7370%, 317.370 mg/g**
 Total Cannabinoids: **28.1386%, 281.386 mg/g**
 Total THC: **25.3713%, 253.713 mg/g**
 Total CBD: **0.1308%, 1.308 mg/g**

Sum Cannabinoids = Acidic Cannabinoids + Neutral Cannabinoids

Analyte	LOD (mg/g)	LOQ (mg/g)	Results (mg/g)	Results (%)
Cannabidiol (CBD)	0.2101	0.4201	ND	ND
Cannabidiolol Acid (CBDA)	0.2101	0.4201	0.541	0.0541
Cannabigerolic Acid (CBGA)	0.2101	0.4201	17.162	1.7162
Cannabigerol (CBG)	0.2101	0.4201	1.449	0.1449
Cannabidiol (CBD)	0.2101	0.4201	0.833	0.0833
Tetrahydrocannabivarin (THCV)	0.2101	0.4201	9.344	0.9344
Cannabinol (CBN)	0.2101	0.4201	ND	ND
Δ 9-Tetrahydrocannabinol (Δ 9-THC)	0.2101	0.4201	12.670	1.2670
Δ 8-Tetrahydrocannabinol (Δ 8-THC)	0.2101	0.4201	ND	ND
Cannabichromene (CBC)	0.2101	0.4201	0.520	0.0520
Δ 9-Tetrahydrocannabinolic Acid (Δ 9-THCA)	0.2101	0.4201	274.849	27.4849

Total Cannabinoids = (Acidic Cannabinoids x 0.877) + Neutral Cannabinoids

Total THC = (THCA x 0.877) + Δ 9-THC

Total CBD = (CBDA x 0.877) + CBD

Terpenes Analysis TESTED

Analytical Technique: **GC-MS**
 Instrumentation: **2020**
 Method: **SOP-002**
 Analysis Performed: **06/13/22**
 Panel Completed: **06/14/22**

Total Terpenes: **1.7372%, 17.372 mg/g**

Analyte	LOD (mg/g)	LOQ (mg/g)	Results (mg/g)	Results (%)
α -Pinene	0.0001	0.0003	1.778	0.1778
Camphene	0.0001	0.0003	0.439	0.0439
β -Myrcene	0.0001	0.0003	2.341	0.2341
β -Pinene	0.0001	0.0003	0.414	0.0414
3-Carene	0.0001	0.0003	ND	ND
α -Terpinene	0.0001	0.0003	0.108	0.0108
Limonene	0.0001	0.0003	5.467	0.5467
p-Cymene	0.0001	0.0003	ND	ND
Ocimene	0.0008	0.0025	0.315	0.0315
Eucalyptol	0.0001	0.0003	ND	ND
γ -Terpinene	0.0001	0.0003	ND	ND
Terpinolene	0.0001	0.0003	0.433	0.0433
Linalool	0.0001	0.0003	1.049	0.1049
Isopulegol	0.0001	0.0003	ND	ND
Geraniol	0.0001	0.0003	ND	ND
Caryophyllene	0.0001	0.0003	3.498	0.3498
α -Humulene	0.0001	0.0003	1.531	0.1531
cis-Nerolidol	0.0002	0.0006	ND	ND
trans-Nerolidol	0.0002	0.0006	ND	ND
Guaiol	0.0001	0.0003	ND	ND
Caryophyllene Oxide	0.0002	0.0006	ND	ND
α -Bisabolol	0.0001	0.0003	ND	ND

Heavy Metals Analysis PASS

Analytical Technique: **ICP-MS**
 Instrumentation: **NexION**
 Method: **SOP-005**
 Analysis Performed: **06/10/22**
 Panel Completed: **06/10/22**

Analyte	LOD (μ g/g)	LOQ (μ g/g)	Action Limit (μ g/g)	Results (μ g/g)	
Arsenic 75	0.050	0.100	0.200	ND	PASS
Cadmium 111	0.050	0.100	0.200	<LOQ	PASS
Lead 208	0.050	0.100	0.500	ND	PASS
Mercury 202	0.005	0.010	0.100	ND	PASS

Microbials Analysis PASS

Analytical Technique: **Colorimetric Microarray**
 Instrumentation: **SensoSpot**
 Method: **SOP-006**
 Analysis Performed: **06/10/22**
 Panel Completed: **06/10/22**

Analyte	Action Limit	Results	
Aspergillus flavus	Detected in 1 gram	ND	PASS
Aspergillus fumigatus	Detected in 1 gram	ND	PASS
Aspergillus niger	Detected in 1 gram	ND	PASS
Aspergillus terreus	Detected in 1 gram	ND	PASS
Salmonella spp.	Detected in 1 gram	ND	PASS
Escherichia coli (STEC)	Detected in 1 gram	ND	PASS

Mycotoxins Analysis PASS

Analytical Technique: **HPLC-MS/MS**
 Instrumentation: **5500**
 Method: **SOP-003**
 Analysis Performed: **06/10/22**
 Panel Completed: **06/13/22**

Analyte	LOD (μ g/kg)	LOQ (μ g/kg)	Action Limit (μ g/kg)	Results (μ g/kg)	
Ochratoxin A	4.040	10.100	20	ND	PASS
Total Aflatoxins	-	-	20	ND	PASS
(Aflatoxin B1)	2.020	4.040	-	ND	
(Aflatoxin B2)	2.020	4.040	-	ND	
(Aflatoxin G1)	2.020	4.040	-	ND	
(Aflatoxin G2)	2.020	4.040	-	ND	



Chemical Residues Analysis
PASS

Analytical Technique: **HPLC-MS/MS**
 Instrumentation: **5500**
 Method: **SOP-003**
 Analysis Performed: **06/10/22**
 Panel Completed: **06/13/22**

Analyte	LOD (µg/g)	LOQ(µg/g)	Action Limit (µg/g)	Results (µg/g)	
Abamectin	0.050	0.100	0.10	ND	PASS
Acephate	0.010	0.020	0.10	ND	PASS
Acequinocyl	0.020	0.050	0.10	ND	PASS
Acetamiprid	0.010	0.020	0.10	ND	PASS
Aldicarb	0.050	0.100	>LOD	ND	PASS
Azoxystrobin	0.010	0.020	0.10	ND	PASS
Bifenazate	0.010	0.020	0.10	ND	PASS
Bifenthrin	0.020	0.050	3.00	ND	PASS
Boscalid	0.020	0.050	0.10	ND	PASS
Carbaryl	0.010	0.020	0.50	ND	PASS
Carbofuran	0.010	0.020	>LOD	ND	PASS
Chlorantraniliprole	0.020	0.050	10.00	ND	PASS
Chlorfenapyr	0.010	0.020	>LOD	ND	PASS
Chlorpyrifos	0.020	0.050	>LOD	ND	PASS
Clofentezine	0.020	0.050	0.10	ND	PASS
Coumaphos	0.010	0.020	>LOD	ND	PASS
Daminozide	0.020	0.050	>LOD	ND	PASS
Diazinon	0.010	0.020	0.10	ND	PASS
Dichlorvos	0.020	0.050	>LOD	ND	PASS
Dimethoate	0.010	0.020	>LOD	ND	PASS
Dimethomorph	0.050	0.100	2.00	ND	PASS
Ethoprophos	0.010	0.020	>LOD	ND	PASS
Etofenprox	0.020	0.050	>LOD	ND	PASS
Etoxazole	0.010	0.020	0.10	ND	PASS
Fenhexamid	0.020	0.050	0.10	ND	PASS
Fenoxycarb	0.010	0.020	>LOD	ND	PASS
Fenpyroximate	0.020	0.050	0.10	ND	PASS
Fipronil	0.020	0.050	>LOD	ND	PASS
Flonicamid	0.020	0.050	0.10	ND	PASS
Fludioxonil	0.020	0.050	0.10	ND	PASS
Hexythiazox	0.020	0.050	0.10	ND	PASS
Imazalil	0.010	0.020	>LOD	ND	PASS
Imidacloprid	0.020	0.050	5.00	ND	PASS
Kresoxim-Methyl	0.020	0.050	0.10	ND	PASS
Malathion	0.020	0.050	0.50	ND	PASS
Metalaxyl	0.010	0.020	2.00	ND	PASS
Methiocarb	0.010	0.020	>LOD	ND	PASS
Methomyl	0.020	0.050	1.00	ND	PASS
Mevinphos	0.020	0.050	>LOD	ND	PASS
Myclobutanil	0.010	0.020	0.10	ND	PASS
Naled	0.020	0.050	0.10	ND	PASS
Oxamyl	0.020	0.050	0.50	ND	PASS
Paclobutrazol	0.020	0.050	0.00	ND	PASS
Permethrin	0.050	0.100	0.50	ND	PASS
Phosmet	0.020	0.050	0.10	ND	PASS
Piperonyl Butoxide	0.010	0.020	3.00	ND	PASS
Prallethrin	0.020	0.050	0.10	ND	PASS
Propiconazole	0.020	0.050	0.10	ND	PASS
Propoxur	0.010	0.020	0.00	ND	PASS
Pyrethrins	0.030	0.060	0.50	ND	PASS
Pyridaben	0.010	0.020	0.10	ND	PASS
Spinetoram	0.030	0.060	0.10	ND	PASS
Spinosad	0.030	0.060	0.10	ND	PASS
Spiromesifen	0.020	0.050	0.10	ND	PASS
Spirotetramat	0.020	0.050	0.10	ND	PASS
Spiroxamine	0.010	0.020	0.00	ND	PASS
Tebuconazole	0.020	0.050	0.10	ND	PASS
Thiacloprid	0.020	0.050	0.00	ND	PASS
Thiamethoxam	0.020	0.050	5.00	ND	PASS
Trifloxystrobin	0.010	0.020	0.10	ND	PASS
Captan	0.050	0.100	0.70	ND	PASS
Chlordane	0.040	0.100	>LOD	ND	PASS
Cyfluthrin	0.200	0.500	2.00	ND	PASS
Cypermethrin	0.100	0.200	1.00	ND	PASS
Methyl Parathion	0.010	0.020	>LOD	ND	PASS
Pentachloronitrobenzene	0.010	0.020	0.10	ND	PASS

Analytical Technique: **GC-MS/MS**
 Instrumentation: **8050**
 Method: **SOP-003**
 Analysis Performed: **06/10/22**
 Panel Completed: **06/13/22**



Foreign Material Analysis PASS

Analytical Technique: **Digital Microscopy**
 Instrumentation: **HM16**
 Method: **SOP-010**
 Analysis Performed: **06/10/22**
 Panel Completed: **06/10/22**

Analyte	Action Limit	Results	
Sand, Soil, Cinders, or Dirt	> 1/4 total sample area	ND	PASS
Mold	> 1/4 total sample area	ND	PASS
Insect Fragments, Hairs, or Mammalian Excreta	> 1 count per 3.0 grams	ND	PASS
Imbedded Foreign Material	> 1/4 total sample area	ND	PASS

Water Activity Analysis PASS

Analytical Technique: **Vapor Pressure Ratio**
 Instrumentation: **HC2**
 Method: **SOP-007**
 Analysis Performed: **06/10/22**
 Panel Completed: **06/10/22**

Analyte	Detection Range (a _w)	Action Limit (a _w)	Results (a _w)	
Water Activity	0.25 - 1.0	0.65	0.5561	PASS

Moisture Content Analysis TESTED

Analytical Technique: **Thermogravimetry**
 Instrumentation: **SMART 6**
 Method: **SOP-008**
 Analysis Performed: **06/10/22**
 Panel Completed: **06/10/22**

Analyte	LOD (%)	Results (%)
Moisture Content	1.00	12.43

