

Summary

Test
Cannabinoids
Heavy Metals
Microbials
Mycotoxins
Pesticides
Residual Solvents
Terpenes

Date Tested 08/17/2023 08/19/2023 08/17/2023 08/18/2023 08/18/2023 08/19/2023 08/19/2023

Tested Tested Tested Tested Tested Tested Tested Tested Tested

ND	67.6 %	95.0 %	Not Tested	Not Tested	Yes
Total Δ9-THC	(6aR,9R,10aR)-HHC	Total Cannabinoids	Moisture Content	Foreign Matter	Internal Standard Normalization

Cannabinoids by HPLC-PDA, LC-MS/MS, and/or GC-MS/MS

Analyte	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
CBC	0.0095	0.0284	ND	ND
CBCV	0.006	0.018	ND	ND
CBD	0.0081	0.0242	ND	ND
CBDV	0.0061	0.0182	ND	ND
CBG	0.0057	0.0172	ND	ND
CBL	0.0112	0.0335	ND	ND
CBN	0.0056	0.0169	ND	ND
CBT	0.018	0.054	ND	ND
Δ8-THC	0.0104	0.0312	ND	ND
Δ9-THC	0.0076	0.0227	ND	ND
Δ9-THCV	0.0069	0.0206	ND	ND
(6aR,9R,10aR)-HHC	0.0067	0.02	67.6	676
(6aR,9S,10aR)-HHC	0.0067	0.02	27.4	274
Total Δ9-THC			ND	ND
Total			95.0	950

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ 9-THC = Δ 9-THCA * 0.877 + Δ 9-THC; Total CDD = CBDA * 0.877 + CBD;

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Tested By: Scott Caudill Senior Scientist Date: 08/17/2023



Date: 08/20/2023
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Date:

Mycotoxins by LC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)
B1	1	5	ND
B2	1	5	ND
G1	1	5	ND
G2	1	5	ND
Ochratoxin A	1	5	ND

ND = Not Detected, NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



Tested By. Jasper van Heemst Principal Scientist Date: 08/18/2023

CCO Date: 08/20/2023

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Residual Solvents by HS-GC-MS

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
Acetone	167	500	ND	Ethylene Glycol	21	62	ND
Acetonitrile	14	41	ND	Ethylene Oxide	0.5	1	ND
Benzene	0.5	1	ND	Heptane	167	500	ND
Butane	167	500	ND	n-Hexane	10	29	ND
1-Butanol	167	500	ND	Isobutane	167	500	ND
2-Butanol	167	500	ND	Isopropyl Acetate	167	500	ND
2-Butanone	167	500	ND	Isopropyl Alcohol	167	500	ND
Chloroform	2	6	ND	Isopropylbenzene	167	500	ND
Cyclohexane	129	388	ND	Methanol	100	300	ND
1,2-Dichloroethane	0.5	1	ND	2-Methylbutane	10	29	ND
1,2-Dimethoxyethane	4	10	ND	Methylene Chloride	20	60	ND
Dimethyl Sulfoxide	167	500	ND	2-Methylpentane	10	29	ND
N,N-Dimethylacetamide	37	109	ND	3-Methylpentane	10	29	ND
2,2-Dimethylbutane	10	29	ND	n-Pentane	167	500	ND
2,3-Dimethylbutane	10	29	ND	1-Pentanol	167	500	ND
N,N-Dimethylformamide	30	88	ND	n-Propane	167	500	ND
2,2-Dimethylpropane	167	500	ND	1-Propanol	167	500	ND
1,4-Dioxane	13	38	ND	Pyridine	7	20	ND
Ethanol	167	500	ND	Tetrahydrofuran	24	72	ND
2-Ethoxyethanol	6	16	ND	Toluene	30	89	ND
Ethyl Acetate	167	500	ND	Trichloroethylene	3	8	ND
Ethyl Ether	167	500	ND	Tetramethylene Sulfone	6	16	ND
Ethylbenzene	3	7	ND	Xylenes (o-, m-, and p-)	73	217	ND

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit.

Generated By: Ryan Bellone Date: 06/20/2023

Tested By: Scott Caudill Senior Scientist

Date: 06/19/2023

This product or substance has been tested by KCA Laboratories using validated testing methodologies and an ISO/IEC 170252017 accredited quality system. Values reported relate only to the product or substance tested. The reported result is based on a sample weight. Unless otherwise stated, results of tests performed on all quality control samples met criteria for acceptance established by KCA Laboratories. KCA Laboratories makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected amounts of any substances reported herein. This Certificate of Analysis shall not be reproduced except in full, without the written approval of KCA Laboratories KCA Laboratories can provide measurement uncertainty upon request.

Terpenes by GC-MS

Analyte	LOD (%)	LOQ (%)	Result (%)	Analyte	LOD (%)	LOQ (%)	Result (%)
α-Bisabolol	0.001	0.005	ND	Timonene	0.001	0.005	ND
(+)-Borneol	0.001	0.005	ND	Linalool	0.001	0.005	ND
Camphene	0.001	0.005	ND	β-myrcene	0.001	0.005	ND
Camphor	0.001	0.005	ND	Nerol	0.001	0.005	ND
3-Carene	0.001	0.005	ND	cis-Nerolidol	0.001	0.005	ND
β-Caryophyllene	0.001	0.005	ND	trans-Nerolidol	0.001	0.005	ND
Caryophyllene Oxide	0.001	0.005	ND	Ocimene	0.001	0.005	ND
α-Cedrene	0.001	0.005	ND	α-Phellandrene	0.001	0.005	ND
Cedrol	0.001	0.005	ND	α-Pinene	0.001	0.005	ND
Eucalyptol	0.001	0.005	ND	β-Pinene	0.001	0.005	ND
Fenchone	0.001	0.005	ND	Pulegone	0.001	0.005	ND
Fenchyl Alcohol	0.001	0.005	ND	Sabinene	0.001	0.005	ND
Geraniol	0.001	0.005	ND	Sabinene Hydrate	0.001	0.005	ND
Geranyl Acetate	0.001	0.005	ND	α-Terpinene	0.001	0.005	ND
Guaiol	0.001	0.005	ND	γ-Terpinene	0.001	0.005	ND
Hexadhydrothymol	0.001	0.005	ND	α-Terpineol	0.001	0.005	ND
α-Humulene	0.001	0.005	ND	γ-Terpineol	0.001	0.005	ND
Isoborneol	0.001	0.005	ND	Terpinolene	0.001	0.005	ND
Isopulegol	0.001	0.005	ND	Valencene	0.001	0.005	ND
				Total Terpenes (%)			0.000

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit

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Generated By: Ryan Bellone CCO Date: 08/20/2023 folise

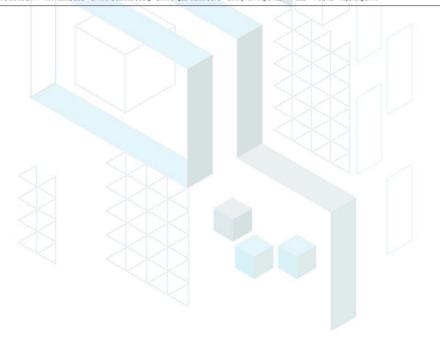
Tested By: Scott Caudill Senior Scientist Date: 08/19/2023

This product or substances had been tested by KCA Labosatories using validated testing methodologies and an ISO(IEC 1700S2077 accordited quality getern. Values reported relate only to the product or substance tested. The reported result is based on a sample valvelly. Unless otherwise stated, results of tested performed on all quality control seamer circles for secreptance established by KCA Labosatories KCA.
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Microbials by PCR and Plating

Analyte	LOD (CFU/g)	Result (CFU/g)
Total aerobic count		ND
Total coliforms	1	ND
Generic E. coli	1	ND
Salmonella spp.	1	ND
Shiga-toxin producing F. coli (STEC)	1	ND

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; CFU = Colony Forming Units; P = Pass; F = Fail; RL = Reporting Limit



Generated By: Ryan Bellone CCO Date: 08/20/2023 July fones
Tested By: Lucy Jones

Scientist Date: 08/17/2023

This product or substance has been tested by KCA Laboratories using validated testing methodologies and an ISO/IEC 1702/S2077 accordited quality system. Values reported relate only to the product or substance tested. The reported result is based on a sample veight. Unless otherwise stated, results of testes performed on all quality control samples retiries for secreptance established by KCA Laboratories KCA Laboratories makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected amounts of any substances reported herein. This Certificate of Analysis shall not be reproduced except in full, without the written approval of KCA Laboratories KCA Laboratories can provide measurement uncertainty upon request.

Pesticides by LC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)
Acephate	30	100	ND	Hexythiazox	30	100	ND
Acetamiprid	30	100	ND	Imazalil	30	100	ND
Aldicarb	30	100	ND	Imidacloprid	30	100	ND
Azoxystrobin	30	100	ND	Kresoxim methyl	30	100	ND
Bifenazate	30	100	ND	Malathion	30	100	ND
Bifenthrin	30	100	ND	Metalaxyl	30	100	ND
Boscalid	30	100	ND	Methiocarb	30	100	ND
Carbaryl	30	100	ND	Methomyl	30	100	ND
Carbofuran	30	100	ND	Mevinphos	30	100	ND
Chloranthraniliprole	30	100	ND	Myclobutanil	30	100	ND
Chlorfenapyr	30	100	ND	Naled	30	100	ND
Chlorpyrifos	30	100	ND	Oxamyl	30	100	ND
Clofentezine	30	100	ND	Paclobutrazol	30	100	ND
Coumaphos	30	100	ND	Permethrin	30	100	ND
Daminozide	30	100	ND	Phosmet	30	100	ND
Diazinon	30	100	ND	Piperonyl Butoxide	30	100	ND
Dichlorvos	30	100	ND	Prallethrin	30	100	ND
Dimethoate	30	100	ND	Propiconazole	30	100	ND
Dimethomorph	30	100	ND	Propoxur	30	100	ND
Ethoprophos	30	100	ND	Pyrethrins	30	100	ND
Etofenprox	30	100	ND	Pyridaben	30	100	ND
Etoxazole	30	100	ND	Spinetoram	30	100	ND
Fenhexamid	30	100	ND	Spinosad	30	100	ND
Fenoxycarb	30	100	ND	Spiromesifen	30	100	ND
Fenpyroximate	30	100	ND	Spirotetramat	30	100	ND
Fipronil	30	100	ND	Spiroxamine	30	100	ND
Flonicamid	30	100	ND	Tebuconazole	30	100	ND
Fludioxonil	30	100	ND	Thiacloprid	30	100	ND
				Thiamethoxam	30	100	ND
				Trifloxystrobin	30	100	ND

ND = Not Detected, NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit

Generated By: Ryan Bellone

Tested By: Jasper van Heemst Principal Scientist Date: 08/18/2023

mlums

Date: 08/20/2023

Heavy Metals by ICP-MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	
Arsenic	2	20	ND	
Cadmium	1	20	ND	
Lead	2	20	ND	
Mercury	12	50	ND	

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit

Kelsey Rogers

Generated By: Ryan Bellone

Tested By: Kelsey Rogers Scientist Date: 08/19/2023

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