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Certificate of Analysis

Client Information

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Sample Information

ARL ID: 724908
Date Received: 2/6/2024
Date Tested: 2/19/2024
Description: Advanced CBD - Original Peppermint
Lot#: CAL13124-1

Product Photo



Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
<u>CBD and Industrial Hemp Package</u>						1
<u>Complete Micro Profile Pseudomonas</u>	USP <2021>, USP <2022>, AOAC 991.14, USP <62>					1
Total Plate Count	USP <2021>	10	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	10	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1

Form: arcoa031201a Report: 724908
Printed on: 2/20/2024 9:00:43 AM

experience • professionalism • value

Released by: Jacob Teller
Date Released: 2/20/2024

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Analysis	Method	Results				UOM	Lab ID
		†MDL / LOQ	Specification	Results			
Pseudomonas aeruginosa	USP <62>	Absent	Record Only	Absent	cfu's/g	1	
Yeast	USP <2021>	10	Record Only	None Detected	cfu's/g	1	
Mold	USP <2021>	10	Record Only	None Detected	cfu's/g	1	
<u>Heavy Metals</u>	ARL ICPMS 8.016					1	
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.041	ppm	1	
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	< 0.001	ppm	1	
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.001	ppm	1	
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.002	ppm	1	
<u>Cannabinoids</u>	ARL 2.058				ppm	1	
CBC	ARL 2.058	0.002	Record Only	< 0.002	%	1	
CBC - A	ARL 2.058	0.002	Record Only	< 0.002	%	1	
<u>CBC - Total</u>	ARL 2.058	0.002	Record Only	< 0.002 ^{Note 1}	%	1	
CBD	ARL 2.058	0.002	Record Only	1.966	%	1	
CBD - A	ARL 2.058	0.002	Record Only	< 0.002	%	1	
<u>CBD - Total</u>	ARL 2.058	0.002	Record Only	1.966	%	1	
CBDV	ARL 2.058	0.002	Record Only	0.010	%	1	
CBDV - A	ARL 2.058	0.002	Record Only	< 0.002	%	1	
<u>CBDV - Total</u>	ARL 2.058	0.002	Record Only	0.010	%	1	
CBG	ARL 2.058	0.002	Record Only	0.021	%	1	
CBG - A	ARL 2.058	0.002	Record Only	< 0.002	%	1	
<u>CBG - Total</u>	ARL 2.058	0.002	Record Only	0.021	%	1	
CBL	ARL 2.058	0.002	Record Only	< 0.002	%	1	
CBN	ARL 2.058	0.002	Record Only	< 0.002	%	1	
THC (Δ8)	ARL 2.058	0.002	Record Only	< 0.002	%	1	
THC (Δ9)	ARL 2.058	0.002	Record Only	< 0.002	%	1	
THC - A (Δ9)	ARL 2.058	0.002	Record Only	< 0.002	%	1	
<u>THC - Total (Δ9)</u>	ARL 2.058	0.002	Record Only	< 0.002 ^{Note 2}	%	1	
THCV	ARL 2.058	0.002	Record Only	< 0.002	%	1	





Analysis	Method	Results				UOM	Lab ID
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THCV - A	ARL 2.058	0.002	Record Only	< 0.002	%	1	
<u>THCV - Total</u>	ARL 2.058	0.002	Record Only	< 0.002	%	1	
<u>Aflatoxin and Ochratoxin Package</u>	ARL 2.058					17	
Aflatoxin B1	UHPLC-MS/MS	0.830	Record Only	<0.830	ppb	17	
Aflatoxin B2	UHPLC-MS/MS	0.830	Record Only	<0.830	ppb	17	
Aflatoxin G1	UHPLC-MS/MS	0.830	Record Only	<0.830	ppb	17	
Aflatoxin G2	UHPLC-MS/MS	0.830	Record Only	<0.830	ppb	17	
Ochratoxin A	UHPLC-MS/MS	1.00	Record Only	<0.830	ppb	17	
Pesticides (Multi Residue Profile)	P2220	0.1	Record Only	See Supplemental COA.	ppm	17	
<u>Residual Solvents (USP 467)</u>	ARL 2.065					1	
1,1-Dichloroethylene	ARL 2.065	1.0	Record Only	< 1.0	ppm	1	
1,1,1-Trichloroethane	ARL 2.065	1.0	Record Only	< 1.0	ppm	1	
1,2-Dichloroethane	ARL 2.065	1.0	Record Only	< 1.0	ppm	1	
Benzene	ARL 2.065	1.0	Record Only	< 1.0	ppm	1	
Carbon Tetrachloride	ARL 2.065	1.0	Record Only	< 1.0	ppm	1	
<u>Residual Solvents Class 2 A+B (USP 467)</u>	ARL 2.065					1	
1,2-Dimethoxyethane	ARL 2.065	25.0	Record Only	< 25.0	ppm	1	
1,4-Dioxane	ARL 2.065	95.5	Record Only	< 95.5	ppm	1	
2-Hexanone (Methylbutylketone)	ARL 2.065	12.5	Record Only	< 12.5	ppm	1	
1,2-Dichloroethylene	ARL 2.065	234.0	Record Only	< 234.0	ppm	1	
Trans-1,2-Dichloroethylene	ARL 2.065	234.0	Record Only	< 234.0	ppm	1	
Cis-1,2-Dichloroethylene	ARL 2.065	234.0	Record Only	< 234.0	ppm	1	
Acetonitrile	ARL 2.065	103.0	Record Only	< 103.0	ppm	1	
Chlorobenzene	ARL 2.065	90.0	Record Only	< 90.0	ppm	1	
Chloroform (Trichloromethane)	ARL 2.065	15.0	Record Only	< 15.0	ppm	1	
Cumene (Isopropylbenzene)	ARL 2.065	17.5	Record Only	< 17.5	ppm	1	
Cyclohexane	ARL 2.065	975.0	Record Only	< 975.0	ppm	1	





Analysis	Method	Results			UOM	Lab ID
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Dichloromethane (Methylene Chloride)	ARL 2.065	151.0	Record Only	< 151.0	ppm	1
N-Hexane	ARL 2.065	61.2	Record Only	< 61.2	ppm	1
Methanol (Class 2)	ARL 2.065	751.0	Record Only	< 751.0	ppm	1
Methylcyclohexane	ARL 2.065	296.5	Record Only	< 296.5	ppm	1
Nitromethane	ARL 2.065	12.5	Record Only	< 12.5	ppm	1
Pyridine	ARL 2.065	50.0	Record Only	< 50.0	ppm	1
Tetrahydrofuran	ARL 2.065	181.5	Record Only	< 181.5	ppm	1
Tetralin	ARL 2.065	21.0	Record Only	< 21.0	ppm	1
Trichloroethylene	ARL 2.065	20.0	Record Only	< 20.0	ppm	1
Toluene	ARL 2.065	223.0	Record Only	< 223.0	ppm	1
Total Xylenes	ARL 2.065	750.0	Record Only	< 750.0	ppm	1
Ethylbenzene	ARL 2.065	750.0	Record Only	< 750.0	ppm	1
m,p-Xylene	ARL 2.065	750.0	Record Only	< 750.0	ppm	1
o-Xylene	ARL 2.065	750.0	Record Only	< 750.0	ppm	1
<u>Residual Solvents Class 3 A+B (USP 467)</u>	ARL 2.065					1
Loss on Drying	ARL 2.004	0.1	Record Only	94.2	%	1
1-Butanol	ARL 2.065	500	Record Only	< 500	ppm	1
1-Pentanol	ARL 2.065	500	Record Only	< 500	ppm	1
1-Propanol (n-Propanol)	ARL 2.065	500	Record Only	< 500	ppm	1
2-Butanol	ARL 2.065	500	Record Only	< 500	ppm	1
2-Butanone (Methylethyl Ketone)	ARL 2.065	500	Record Only	< 500	ppm	1
3-Methyl-1-Butanol (Isoamyl Alcohol)	ARL 2.065	500	Record Only	< 500	ppm	1
4-Methyl-2-Pentanone (Methylisobutyl Ketone)	ARL 2.065	500	Record Only	< 500	ppm	1
Acetic Acid	ARL 2.065	3490	Record Only	< 3490	ppm	1
Acetone	ARL 2.065	500	Record Only	< 500	ppm	1
Anisole	ARL 2.065	500	Record Only	< 500	ppm	1
Butyl Acetate (Acetic Acid Butyl Ester)	ARL 2.065	500	Record Only	< 500	ppm	1





Analysis	Method	Results				UOM	Lab ID
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Diethyl Ether (Ethyl Ether)	ARL 2.065	500	Record Only	< 500	ppm	1	
Dimethyl Sulfoxide	ARL 2.065	500	Record Only	< 500	ppm	1	
Ethanol (Class 3)	ARL 2.065	500	Record Only	< 500	ppm	1	
Ethyl Acetate	ARL 2.065	500	Record Only	< 500	ppm	1	
Ethyl Formate	ARL 2.065	500	Record Only	< 500	ppm	1	
Formic Acid	ARL 2.065	3620	Record Only	< 3620	ppm	1	
Heptane	ARL 2.065	500	Record Only	< 500	ppm	1	
Isobutyl Acetate	ARL 2.065	500	Record Only	< 500	ppm	1	
Isobutanol (2-Methyl-1-Propanol)	ARL 2.065	500	Record Only	< 500	ppm	1	
Isopropanol (2-Propanol, Class 3)	ARL 2.065	500	Record Only	< 500	ppm	1	
Isopropyl Acetate	ARL 2.065	500	Record Only	< 500	ppm	1	
Methyl Acetate	ARL 2.065	500	Record Only	< 500	ppm	1	
Methyl Tert-butyl Ether	ARL 2.065	500	Record Only	< 500	ppm	1	
n-Pentane	ARL 2.065	500	Record Only	< 500	ppm	1	
Propyl Acetate	ARL 2.065	500	Record Only	< 500	ppm	1	

Notes:

1. Cannabinoid Totals account for mass difference between acid and decarboxylated forms
2. Cannabinoid Totals account for mass difference between acid and decarboxylated forms.

†Method Detection Limit (MDL):

In microbiological testing, this is the minimum level of growth that can be detected with confidence. If a result is reported as "None Detected", it means any visible growth was below this limit.

†Limit of Quantitation (LOQ):

In analytical chemistry testing, this is the minimum level of the desired analyte that can be quantified with confidence. If a result is reported as less than LOQ, it means any detected amount was too small to report an exact number.

Under accreditation number 77504, ARL is an ISO/IEC 17025:2017 Accredited Laboratory. Uncertainty data for ISO-scoped methods is available upon request. Certificate and scope are also available upon request.

