



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794



Report Number: 23-009781/D003.R000
Report Date: 08/25/2023
ORELAP#: OR100028
Purchase Order:
Received: 08/17/23 09:31

Customer: Zero Point Extraction
Product identity: DH30007 CBD Distillate
Client/Metric ID: .
Laboratory ID: 23-009781-0001

Summary

Potency:

Analyte	Result (%)		
CBD	63.1		CBD-Total 63.1%
CBE	6.77		THC-Total <LOQ
CBT	4.62		(Reported in percent of total sample)
CBN	1.47		
CBG	1.30		
CBDV	0.256		
CBC	0.201		

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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 2615 SW CESSNA DR
 Prineville Oregon 97754
 United States of America (USA)

Product identity: DH30007 CBD Distillate

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-009781-0001

Evidence of Cooling: No

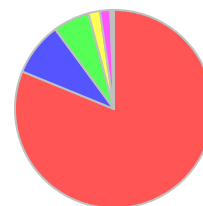
Temp: 24.4 °C

Relinquished by: client

Sample Results

Potency **Method:** J AOAC 2015 V98-6 (mod)^P **Units %** **Batch:** 2310207 **Analyze:** 8/19/23 2:13:00 AM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	0.201		0.0683	
CBC	0.201		0.0683	
CBC-A	< LOQ		0.0683	
CBC-A	< LOQ		0.0683	
CBC-Total	0.201		0.128	
CBC-Total	0.201		0.128	
CBD	63.1		0.683	
CBD	63.1		0.683	
CBD-A	< LOQ		0.0683	
CBD-A	< LOQ		0.0683	
CBD-Total	63.1		0.742	
CBD-Total	63.1		0.742	
CBDV	0.256		0.0683	
CBDV	0.256		0.0683	
CBDV-A	< LOQ		0.0683	
CBDV-A	< LOQ		0.0683	
CBDV-Total	0.256		0.127	
CBDV-Total	0.256		0.127	
CBE	6.77		0.0683	
CBE	6.77		0.0683	
CBG	1.30		0.0683	
CBG	1.30		0.0683	
CBG-A	< LOQ		0.0683	
CBG-A	< LOQ		0.0683	
CBG-Total	1.30		0.127	
CBG-Total	1.30		0.127	
CBL	< LOQ		0.0683	
CBL	< LOQ		0.0683	
CBL-A	< LOQ		0.0683	
CBL-A	< LOQ		0.0683	
CBL-Total	< LOQ		0.128	



- CBD
- CBE
- CBT
- CBN
- CBG
- CBDV
- CBC



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Potency **Method:** J AOAC 2015 V98-6 (mod)^p **Units %** **Batch:** 2310207 **Analyze:** 8/19/23 2:13:00 AM

Analyte	As Received	Dry weight	LOQ	Notes
CBL-Total	< LOQ		0.128	
CBN	1.47		0.0683	
CBN	1.47		0.0683	
CBT	4.62		0.0683	
CBT	4.62		0.0683	
Δ10-THC-9R	< LOQ		0.0683	
Δ10-THC-9R	< LOQ		0.0683	
Δ10-THC-9S	< LOQ		0.0683	
Δ10-THC-9S	< LOQ		0.0683	
Δ10-THC-Total	< LOQ		0.137	
Δ10-THC-Total	< LOQ		0.137	
Δ8-THC	< LOQ		0.0683	
Δ8-THC	< LOQ		0.0683	
Δ8-THCV	< LOQ		0.0683	
Δ8-THCV	< LOQ		0.0683	
Δ9-THC	< LOQ		0.0683	
Δ9-THC	< LOQ		0.0683	
delta-9-THCP	< LOQ		0.0683	
delta-9-THCP	< LOQ		0.0683	
exo-THC	< LOQ		0.0683	
exo-THC	< LOQ		0.0683	
THC-A	< LOQ		0.0683	
THC-A	< LOQ		0.0683	
THC-Total	< LOQ		0.128	
THC-Total	< LOQ		0.128	
THCV	< LOQ		0.0683	
THCV	< LOQ		0.0683	
THCV-A	< LOQ		0.0683	
THCV-A	< LOQ		0.0683	
THCV-Total	< LOQ		0.127	
THCV-Total	< LOQ		0.127	
Total Cannabinoids	77.7			
Total Cannabinoids	77.7			

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2310138	08/20/23 AOAC 991.14 (Petrifilm) ^p		I
Total Coliforms	< LOQ		cfu/g	10	2310138	08/20/23 AOAC 991.14 (Petrifilm) ^p		I
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2310139	08/20/23 AOAC 2014.05 (RAPID) ^p		I
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2310139	08/20/23 AOAC 2014.05 (RAPID) ^p		I



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Solvents											Method: Residual Solvents by GC/MS ^b					Units µg/g		Batch 2310337		Analyze 08/24/23 03:15 PM				
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes													
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass														
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200															
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass														
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200															
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0															
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass														
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass														
Cyclohexane	< LOQ	3880	200	pass		Ethyl acetate	< LOQ	5000	200	pass														
Ethyl benzene	< LOQ		200			Ethyl ether	< LOQ	5000	200	pass														
Ethylene glycol	< LOQ	620	200	pass		Ethylene oxide	< LOQ	50.0	20.0	pass														
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass														
Isopropylbenzene (Cumene)	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200															
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	60.0	pass														
Methylpropane (Isobutane)	< LOQ		200			n-Butane	< LOQ		200															
n-Heptane	< LOQ	5000	200	pass		n-Hexane	< LOQ		30.0															
n-Pentane	< LOQ		200			o-Xylene	< LOQ		200															
Pentanes (sum)	< LOQ	5000	600	pass		Propane	< LOQ	5000	200	pass														
Tetrahydrofuran	< LOQ	720	100	pass		Toluene	< LOQ	890	100	pass														
Total Xylenes	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass														



Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod) ^b						Units mg/kg	Batch 2310204	Analyze 08/21/23 02:26 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [‡]	< LOQ	0.50	0.250	pass		Acephate [‡]	< LOQ	0.40	0.200	pass	
Acequinocyl [‡]	< LOQ	2.0	1.00	pass		Acetamiprid [‡]	< LOQ	0.20	0.100	pass	
Aldicarb [‡]	< LOQ	0.40	0.200	pass		Azoxystrobin [‡]	< LOQ	0.20	0.100	pass	
Bifenazate [‡]	< LOQ	0.20	0.100	pass		Bifenthrin [‡]	< LOQ	0.20	0.100	pass	
Boscalid [‡]	< LOQ	0.40	0.200	pass		Carbaryl [‡]	< LOQ	0.20	0.100	pass	
Carbofuran [‡]	< LOQ	0.20	0.100	pass		Chlorantraniliprole [‡]	< LOQ	0.20	0.100	pass	
Chlorfenapyr [‡]	< LOQ	1.0	0.500	pass		Chlorpyrifos [‡]	< LOQ	0.20	0.100	pass	
Clofentezine [‡]	< LOQ	0.20	0.100	pass		Cyfluthrin [‡]	< LOQ	1.0	0.500	pass	
Cypermethrin [‡]	< LOQ	1.0	0.500	pass		Daminozide [‡]	< LOQ	1.0	0.500	pass	
Diazinon [‡]	< LOQ	0.20	0.100	pass		Dichlorvos [‡]	< LOQ	1.0	0.500	pass	
Dimethoate [‡]	< LOQ	0.20	0.100	pass		Ethoprophos [‡]	< LOQ	0.20	0.100	pass	
Etofenprox [‡]	< LOQ	0.40	0.200	pass		Etoxazole [‡]	< LOQ	0.20	0.100	pass	
Fenoxycarb [‡]	< LOQ	0.20	0.100	pass		Fenpyroximate [‡]	< LOQ	0.40	0.200	pass	
Fipronil [‡]	< LOQ	0.40	0.200	pass		Flonicamid [‡]	< LOQ	1.0	0.400	pass	
Fludioxonil [‡]	< LOQ	0.40	0.200	pass		Hexythiazox [‡]	< LOQ	1.0	0.400	pass	
Imazalil [‡]	< LOQ	0.20	0.100	pass		Imidacloprid [‡]	< LOQ	0.40	0.200	pass	
Kresoxim-methyl [‡]	< LOQ	0.40	0.200	pass		Malathion [‡]	< LOQ	0.20	0.100	pass	
Metalaxyl [‡]	< LOQ	0.20	0.100	pass		Methiocarb [‡]	< LOQ	0.20	0.100	pass	
Methomyl [‡]	< LOQ	0.40	0.200	pass		MGK-264 [‡]	< LOQ	0.20	0.100	pass	
Myclobutanil [‡]	< LOQ	0.20	0.100	pass		Naled [‡]	< LOQ	0.50	0.250	pass	
Oxamyl [‡]	< LOQ	1.0	0.500	pass		Pacllobutrazole [‡]	< LOQ	0.40	0.200	pass	
Parathion-Methyl [‡]	< LOQ	0.20	0.100	pass		Permethrin [‡]	< LOQ	0.20	0.100	pass	
Phosmet [‡]	< LOQ	0.20	0.100	pass		Piperonyl butoxide [‡]	< LOQ	2.0	1.00	pass	
Prallethrin [‡]	< LOQ	0.20	0.100	pass		Propiconazole [‡]	< LOQ	0.40	0.200	pass	
Propoxur [‡]	< LOQ	0.20	0.100	pass		Pyrethrin I (total) [‡]	< LOQ	1.0	0.500	pass	
Pyridaben [‡]	< LOQ	0.20	0.100	pass		Spinosad [‡]	< LOQ	0.20	0.100	pass	
Spiromesifen [‡]	< LOQ	0.20	0.100	pass		Spirotetramat [‡]	< LOQ	0.20	0.100	pass	
Spiroxamine [‡]	< LOQ	0.40	0.200	pass		Tebuconazole [‡]	< LOQ	0.40	0.200	pass	
Thiacloprid [‡]	< LOQ	0.20	0.100	pass		Thiamethoxam [‡]	< LOQ	0.20	0.100	pass	
Trifloxystrobin [‡]	< LOQ	0.20	0.100	pass							

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes	
Arsenic [‡]	< LOQ	0.200	mg/kg	0.0758	2310198	08/21/23	AOAC 2013.06 (mod.) ^b	pass		
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0758	2310198	08/21/23	AOAC 2013.06 (mod.) ^b	pass		
Lead [‡]	< LOQ	0.500	mg/kg	0.0758	2310198	08/21/23	AOAC 2013.06 (mod.) ^b	pass		
Mercury [‡]	< LOQ	0.100	mg/kg	0.0379	2310198	08/21/23	AOAC 2013.06 (mod.) ^b	pass		



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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Ⓐ = ISO/IEC 17025:2017 accredited method.

Ⓜ = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

µg/g = Microgram per gram

mg/kg = Milligram per kilogram = parts per million (ppm)

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

Approved Signatory

Derrick Tanner
General Manager



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Revision: 3 Document ID: 3120
 LegacyID: CFLC21WorksheetValidated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC2007.1 &EN 15662		Units: mg/Kg			Batch ID 2310204			
Method Blank	Blank Result	Blank Limits	Notes	LCS Result	LCS Spk	LCS % Re	Limits	Notes
Abamectin	0.00	< 0.250		0.860	1.000	86.0	50.0	150
Acephate	0.006	< 0.200		0.745	0.800	93.2	60.0	120
Acetamiprid	0.00	< 1.000		3.799	4.000	95.0	40.0	160
Acetamiprid	0.00	< 0.100		0.382	0.400	95.5	60.0	120
Aldicarb	0.00	< 0.200		0.838	0.800	104.7	60.0	120
Azoxystrobin	0.023	< 0.100		0.384	0.400	96.0	60.0	120
Bifenazate	0.00	< 0.100		0.392	0.400	98.0	60.0	120
Bifenthrin	0.00	< 0.100		0.377	0.400	94.3	50.0	150
Boscalid	0.00	< 0.200		0.783	0.800	97.9	60.0	120
Carbaryl	0.00	< 0.100		0.382	0.400	95.5	60.0	120
Carbendazim	0.00	< 0.100		0.380	0.400	95.1	60.0	120
Chlorantraniliprole	0.00	< 0.100		0.354	0.400	88.4	60.0	120
Chlorfenapyr	0.00	< 0.500		1.802	2.000	90.1	60.0	120
Chlorpyrifos	0.00	< 0.100		0.388	0.400	97.0	60.0	120
Clofentezine	0.00	< 0.100		0.386	0.400	96.4	60.0	120
Cyfluthrin	0.00	< 0.500		2.067	2.000	103.3	50.0	150
Cypermethrin	0.00	< 0.500		1.886	2.000	94.3	50.0	150
Daminozide	0.250	< 0.500		2.196	2.000	109.8	60.0	120
Diazinon	0.00	< 0.100		0.377	0.400	94.4	60.0	120
Dichlorvos	0.00	< 0.500		1.731	2.000	86.6	60.0	120
Dimethoate	0.053	< 0.100		0.397	0.400	99.3	60.0	120
Ethionphos	0.021	< 0.100		0.398	0.400	99.5	60.0	120
Etofenprox	0.00	< 0.200		0.773	0.800	96.6	50.0	150
Etoxazole	0.00	< 0.100		0.350	0.400	87.5	60.0	120
Fenoxycarb	0.00	< 0.100		0.378	0.400	94.4	60.0	120
Fenpyroximate	0.063	< 0.200		0.774	0.800	96.7	60.0	120
Fipronil	0.00	< 0.200		0.809	0.800	101.1	60.0	120
Fonicamid	0.00	< 0.250		0.991	1.000	99.1	60.0	120
Fludioxonil	0.00	< 0.200		0.838	0.800	104.7	50.0	150
Hexythiazox	0.081	< 0.250		0.942	1.000	94.2	60.0	120
Imazalil	0.00	< 0.100		0.383	0.400	95.7	60.0	120
Imidacloprid	0.00	< 0.200		0.768	0.800	96.0	60.0	120
Kiesoxim-methyl	0.00	< 0.200		0.818	0.800	102.3	60.0	120
Malathion	0.00	< 0.100		0.369	0.400	92.2	60.0	120
Metolaxyl	0.00	< 0.100		0.391	0.400	97.7	60.0	120
Methiocarb	0.022	< 0.100		0.400	0.400	99.9	60.0	120
Methomyl	0.00	< 0.200		0.811	0.800	101.3	60.0	120
MCK-264	0.00	< 0.100		0.404	0.400	101.1	50.0	150
Mydobutanol	0.00	< 0.100		0.359	0.400	89.8	60.0	120
Naled	0.00	< 0.250		1.040	1.000	104.0	50.0	150
Oxamyl	0.00	< 0.500		1.818	2.000	90.9	60.0	120
Padobutrazole	0.00	< 0.200		0.780	0.800	97.5	60.0	120
Parathion-Methyl	0.065	< 0.100		0.413	0.400	103.3	50.0	150
Permethrin	0.028	< 0.100		0.379	0.400	94.6	50.0	150
Phosmet	0.00	< 0.100		0.394	0.400	98.4	50.0	150
Piperonyl butoxide	0.066	< 0.500		2.035	2.000	101.8	60.0	120
Prallethrin	0.021	< 0.100		0.413	0.400	103.3	60.0	120
Propiconazole	0.055	< 0.200		0.756	0.800	94.5	60.0	120
Propoxur	0.00	< 0.100		0.377	0.400	94.2	60.0	120
Pyrethrin (Summe)	0.003	< 0.100		0.497	0.488	101.8	60.0	120
Pyridaben	0.00	< 0.100		0.367	0.400	96.8	50.0	150
Spirosad	0.00	< 0.100		0.373	0.388	96.1	50.0	150
Spiromesfen	0.00	< 0.100		0.404	0.400	101.0	60.0	120
Spirotetramat	0.00	< 0.100		0.381	0.400	95.3	60.0	120
Spiroxamine	0.00	< 0.200		0.795	0.800	99.4	60.0	120
Tebuconazole	0.00	< 0.200		0.759	0.800	94.9	60.0	120
Thiadoprid	0.00	< 0.100		0.367	0.400	91.7	60.0	120
Thiamethoxam	0.00	< 0.100		0.382	0.400	95.4	60.0	120
Trifloxystrobin	0.00	< 0.100		0.384	0.400	96.0	60.0	120



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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg					Batch ID 2310204			
Matrix Spke/Matrix Spke Duplicate Recoveries	Result	MS Res	MSD Res	Spike	RFD%	Limit	MS % Re	MSD % Re	Limits	Notes
Abamectin	0.00	0.594	0.635	1.00	6.6%	< 30	59.4%	63.5%	50 - 150	
Acaphate	0.00	0.673	0.627	0.80	7.2%	< 30	83.0%	77.3%	50 - 150	
Acetaminophen	0.00	2.405	2.341	4.00	2.7%	< 30	60.1%	58.3%	50 - 150	
Acetamiprid	0.00	0.391	0.389	0.40	0.4%	< 30	97.7%	97.3%	50 - 150	
Aldicarb	0.00	0.812	0.820	0.80	0.9%	< 30	101.5%	102.4%	50 - 150	
Azoxystrobin	0.021	0.353	0.354	0.40	0.2%	< 30	83.0%	83.2%	50 - 150	
Bifenazate	0.00	0.431	0.435	0.40	1.0%	< 30	107.7%	108.8%	50 - 150	
Bifenthrin	0.040	0.268	0.270	0.40	1.1%	< 30	56.9%	57.0%	50 - 150	
Boscalid	0.00	0.783	0.654	0.80	17.9%	< 30	97.9%	81.8%	50 - 150	
Carbaryl	0.00	0.364	0.370	0.40	1.6%	< 30	91.0%	92.5%	50 - 150	
Carbendazim	0.00	0.365	0.384	0.40	4.7%	< 30	91.8%	96.0%	50 - 150	
Chlorantraniliprole	0.00	0.394	0.366	0.40	2.1%	< 30	98.4%	96.4%	50 - 150	
Chlorfenapyr	0.00	1.388	1.460	2.00	5.1%	< 30	69.4%	73.0%	50 - 150	
Chlorpyrifos	0.00	0.408	0.414	0.40	1.5%	< 30	102.0%	103.5%	50 - 150	
Clofentezine	0.00	0.262	0.305	0.40	15.2%	< 30	65.3%	76.4%	50 - 150	
Cyfluthrin	0.00	0.914	0.901	2.00	1.4%	< 30	45.7%	45.1%	30 - 150	
Cypermethrin	0.00	1.147	1.022	2.00	11.5%	< 30	57.4%	51.1%	50 - 150	
Daminozide	0.00	1.260	1.283	2.00	1.8%	< 30	63.0%	64.1%	30 - 150	
Diazinon	0.00	0.346	0.355	0.40	2.9%	< 30	86.5%	89.0%	50 - 150	
Dichlorvos	0.058	1.855	1.905	2.00	2.8%	< 30	89.8%	92.4%	50 - 150	
Dimethoate	0.00	0.385	0.405	0.40	5.1%	< 30	96.2%	101.2%	50 - 150	
Ethionphos	0.020	0.383	0.380	0.40	0.8%	< 30	90.7%	90.0%	50 - 150	
Etofenprox	0.00	0.520	0.492	0.80	5.5%	< 30	65.0%	61.8%	50 - 150	
Etoxazole	0.025	0.248	0.253	0.40	1.6%	< 30	56.0%	56.9%	50 - 150	
Fenoxycarb	0.00	0.328	0.325	0.40	0.7%	< 30	82.0%	81.4%	50 - 150	
Fenpyroximate	0.00	0.473	0.480	0.80	2.7%	< 30	59.1%	57.5%	50 - 150	
Fipronil	0.00	0.551	0.512	0.80	7.4%	< 30	68.9%	64.0%	50 - 150	
Fonicamid	0.00	0.891	0.983	1.00	9.9%	< 30	89.1%	98.3%	50 - 150	
Fludioxonil	0.013	0.868	0.868	0.80	0.0%	< 30	106.9%	106.9%	50 - 150	
Hexythiazox	0.00	0.632	0.652	1.00	3.0%	< 30	63.2%	65.2%	50 - 150	
Imazalil	0.00	0.371	0.394	0.40	6.2%	< 30	92.7%	98.0%	50 - 150	
Imidacloprid	0.050	0.689	0.847	0.80	23.3%	< 30	74.9%	94.0%	50 - 150	
Kiesoxim-methyl	0.00	0.642	0.657	0.80	2.4%	< 30	80.2%	82.2%	50 - 150	
Malathion	0.017	0.341	0.331	0.40	3.1%	< 30	81.0%	78.9%	50 - 150	
Metaxyl	0.00	0.371	0.393	0.40	5.8%	< 30	92.8%	98.3%	50 - 150	
Methiocarb	0.00	0.375	0.387	0.40	3.3%	< 30	93.7%	96.8%	50 - 150	
Methomyl	0.00	0.748	0.793	0.80	5.7%	< 30	93.0%	99.1%	50 - 150	
MCK-264	0.00	0.278	0.315	0.40	12.7%	< 30	69.4%	78.8%	50 - 150	
Mydobutani	0.024	0.344	0.345	0.40	0.3%	< 30	80.1%	80.3%	50 - 150	
Naled	0.00	0.894	0.937	1.00	4.7%	< 30	89.4%	93.7%	50 - 150	
Oxaryl	0.00	1.867	1.925	2.00	3.0%	< 30	93.4%	96.2%	50 - 150	
Padobutrazole	0.00	0.744	0.755	0.80	1.6%	< 30	93.0%	94.5%	50 - 150	
Parathion-Methyl	0.074	0.363	0.402	0.40	12.8%	< 30	72.4%	82.2%	30 - 150	
Permethrin	0.027	0.333	0.316	0.40	5.7%	< 30	76.4%	72.2%	50 - 150	
Phosmet	0.00	0.365	0.379	0.40	3.4%	< 30	91.5%	94.7%	50 - 150	
Piperonyl butoxide	0.063	1.161	1.262	2.00	8.8%	< 30	54.9%	60.0%	50 - 150	
Prallethrin	0.027	0.364	0.359	0.40	1.6%	< 30	84.4%	83.0%	50 - 150	
Propiconazole	0.052	0.708	0.689	0.80	3.0%	< 30	82.0%	79.8%	50 - 150	
Propoxur	0.020	0.382	0.381	0.40	0.5%	< 30	90.7%	90.3%	50 - 150	
Pyrethrin (Summe)	0.00	0.140	0.177	0.488	23.5%	< 30	28.0%	36.2%	50 - 150	
Pyridaben	0.024	0.300	0.281	0.40	6.9%	< 30	68.9%	64.3%	50 - 150	
Spirosad	0.00	0.245	0.264	0.388	7.1%	< 30	63.4%	68.0%	50 - 150	
Spiromesfen	0.011	0.360	0.352	0.40	2.3%	< 30	87.1%	85.1%	50 - 150	
Spirotetramat	0.00	0.546	0.559	0.40	2.3%	< 30	136.5%	139.7%	50 - 150	
Spiroxamine	0.036	0.751	0.783	0.80	4.4%	< 30	89.4%	93.4%	50 - 150	
Tebuconazole	0.00	0.744	0.713	0.80	4.2%	< 30	93.0%	89.2%	50 - 150	
Thiadoprid	0.00	0.363	0.365	0.40	0.7%	< 30	90.7%	91.3%	50 - 150	
Thiamethoxam	0.00	0.399	0.398	0.40	0.4%	< 30	99.9%	99.4%	50 - 150	
Trifloxystrobin	0.00	0.235	0.239	0.40	1.7%	< 30	58.8%	59.8%	50 - 150	



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794



Report Number: 23-009781/D003.R000
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 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V98-6 Batch ID: 2310207

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0734	0.0713	%	103	80.0 - 120	Acceptable	
CBDV	2	0.0742	0.0722	%	103	80.0 - 120	Acceptable	
CBE	2	0.0770	0.0760	%	101	80.0 - 120	Acceptable	
CBD	1	0.0786	0.0779	%	101	90.0 - 110	Acceptable	
CBD ^A	1	0.0798	0.0792	%	101	80.0 - 120	Acceptable	
CBC	1	0.0842	0.0838	%	100	80.0 - 120	Acceptable	
CBD	1	0.0848	0.0810	%	105	90.0 - 110	Acceptable	
THCV	2	0.0461	0.0461	%	100	80.0 - 120	Acceptable	
Δ8THCV	2	0.0635	0.0636	%	99.8	80.0 - 120	Acceptable	
THCV/A	2	0.0773	0.0709	%	109	80.0 - 120	Acceptable	
CBN	1	0.0777	0.0792	%	98.0	80.0 - 120	Acceptable	
exo-THC	2	0.0686	0.0698	%	98.3	80.0 - 120	Acceptable	
Δ9THC	1	0.0803	0.0820	%	97.9	90.0 - 110	Acceptable	
Δ8THC	1	0.0811	0.0840	%	96.5	90.0 - 110	Acceptable	
9SΔ10THC	1	0.0791	0.0818	%	96.6	80.0 - 120	Acceptable	
CBL	2	0.0734	0.0718	%	102	80.0 - 120	Acceptable	
9RΔ10THC	1	0.0250	0.0265	%	94.3	80.0 - 120	Acceptable	
CBC	2	0.0750	0.0772	%	97.2	80.0 - 120	Acceptable	
THCA	1	0.0761	0.0793	%	96.0	90.0 - 110	Acceptable	
CBCA	2	0.0766	0.0737	%	104	80.0 - 120	Acceptable	
CBLA	2	0.154	0.149	%	103	80.0 - 120	Acceptable	
Δ9THCP	2	0.0709	0.0730	%	97.1	80.0 - 120	Acceptable	
CBT	2	0.0655	0.0711	%	92.1	80.0 - 120	Acceptable	

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00683	%	< 0.00683	Acceptable	
CBDV	<LOQ	0.00683	%	< 0.00683	Acceptable	
CBE	<LOQ	0.00683	%	< 0.00683	Acceptable	
CBD	<LOQ	0.00683	%	< 0.00683	Acceptable	
CBD ^A	<LOQ	0.00683	%	< 0.00683	Acceptable	
CBC	<LOQ	0.00683	%	< 0.00683	Acceptable	
CBD	<LOQ	0.00683	%	< 0.00683	Acceptable	
THCV	<LOQ	0.00683	%	< 0.00683	Acceptable	
Δ8THCV	<LOQ	0.00683	%	< 0.00683	Acceptable	
THCV/A	<LOQ	0.00683	%	< 0.00683	Acceptable	
CBN	<LOQ	0.00683	%	< 0.00683	Acceptable	
exo-THC	<LOQ	0.00683	%	< 0.00683	Acceptable	
Δ9THC	<LOQ	0.00683	%	< 0.00683	Acceptable	
Δ8THC	<LOQ	0.00683	%	< 0.00683	Acceptable	
9SΔ10THC	<LOQ	0.00683	%	< 0.00683	Acceptable	
CBL	<LOQ	0.00683	%	< 0.00683	Acceptable	
9RΔ10THC	<LOQ	0.00683	%	< 0.00683	Acceptable	
CBC	<LOQ	0.00683	%	< 0.00683	Acceptable	
THCA	<LOQ	0.00683	%	< 0.00683	Acceptable	
CBCA	<LOQ	0.00683	%	< 0.00683	Acceptable	
CBLA	<LOQ	0.00683	%	< 0.00683	Acceptable	
Δ9THCP	<LOQ	0.00683	%	< 0.00683	Acceptable	
CBT	<LOQ	0.00683	%	< 0.00683	Acceptable	

Abbreviations
 ND - None Detected at or above MRI
 RPD - Relative Percent Difference
 LOQ - Limit of Quantitation

Units of Measure:
 %- Percent



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 Portland, OR 97230
 503-254-1794

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Laboratory Quality Control Results

JAOAC2015 V98-6		Batch ID: 2310207						
Sample Duplicate		Sample ID: 23-009781-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.0687	%	NA	< 20	Acceptable	
CBDV	0.240	0.256	0.0687	%	6.45	< 20	Acceptable	
CBE	6.53	6.77	0.0687	%	3.73	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.0687	%	NA	< 20	Acceptable	
CBD ^A	<LOQ	<LOQ	0.0687	%	NA	< 20	Acceptable	
CBD ^B	1.29	1.30	0.0687	%	0.457	< 20	Acceptable	
CBD	61.1	63.1	0.0687	%	3.26	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0687	%	NA	< 20	Acceptable	
Δ ⁸ THCV	<LOQ	<LOQ	0.0687	%	NA	< 20	Acceptable	
THCV/A	<LOQ	<LOQ	0.0687	%	NA	< 20	Acceptable	
CBN	1.41	1.47	0.0687	%	3.78	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0687	%	NA	< 20	Acceptable	
Δ ⁹ THC	<LOQ	<LOQ	0.0687	%	NA	< 20	Acceptable	
Δ ⁸ THC	<LOQ	<LOQ	0.0687	%	NA	< 20	Acceptable	
9S-Δ ¹⁰ THC	<LOQ	<LOQ	0.0687	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0687	%	NA	< 20	Acceptable	
9R-Δ ¹⁰ THC	<LOQ	<LOQ	0.0687	%	NA	< 20	Acceptable	
CBC	0.196	0.201	0.0687	%	2.75	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0687	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0687	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0687	%	NA	< 20	Acceptable	
Δ ⁹ THCP	<LOQ	<LOQ	0.0687	%	NA	< 20	Acceptable	
CBT	4.47	4.62	0.0687	%	3.46	< 20	Acceptable	

Abbreviations

- ND - None Detected at or above MRI
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation

Units of Measure:

%- Percent



Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2310337					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		470	584	µg/g	80.5	60 - 120	
Isobutane	ND	< 200		698	767	µg/g	91.0	60 - 120	
Butane	ND	< 200		662	782	µg/g	84.7	60 - 120	
2,2-Dimethylpropane	ND	< 200		748	939	µg/g	79.7	60 - 120	
Methanol	ND	< 200		1360	1670	µg/g	81.4	60 - 120	
Ethylene Oxide	ND	< 30		48.8	57.1	µg/g	85.5	60 - 120	
2-Methylbutane	ND	< 200		1350	1680	µg/g	80.4	60 - 120	
Pentane	ND	< 200		1330	1670	µg/g	79.6	60 - 120	
Ethanol	ND	< 200		1270	1660	µg/g	76.5	70 - 130	
Ethyl Ether	ND	< 200		1360	1670	µg/g	81.4	60 - 120	
2,2-Dimethylbutane	ND	< 30		160	189	µg/g	84.7	60 - 120	
Acetone	ND	< 200		1360	1670	µg/g	81.4	60 - 120	
2-Propanol	ND	< 200		1260	1630	µg/g	77.3	60 - 120	
Ethyl Formate	ND	< 500		3930	1600	µg/g	245.6	70 - 130	Q6
Acetonitrile	ND	< 100		393	492	µg/g	79.9	60 - 120	
Methyl Acetate	ND	< 500		1460	1600	µg/g	91.3	70 - 130	
2,3-Dimethylbutane	ND	< 30		146	180	µg/g	81.1	60 - 120	
Dichloromethane	ND	< 60		400	488	µg/g	82.0	60 - 120	
2-Methylpentane	ND	< 30		143	182	µg/g	78.6	60 - 120	
MTBE	ND	< 500		1490	1610	µg/g	92.5	70 - 130	
3-Methylpentane	ND	< 30		145	177	µg/g	81.9	60 - 120	
Hexane	ND	< 30		140	177	µg/g	79.1	60 - 120	
1-Propanol	ND	< 500		1520	1600	µg/g	95.0	70 - 130	
Methyl ethyl ketone	ND	< 500		1410	1610	µg/g	87.6	70 - 130	
Ethyl acetate	ND	< 200		1240	1630	µg/g	76.1	60 - 120	
2-Butanol	ND	< 200		1160	1630	µg/g	71.2	60 - 120	
Tetrahydrofuran	ND	< 100		392	488	µg/g	80.3	60 - 120	
Cyclohexane	ND	< 200		1290	1610	µg/g	80.1	60 - 120	
2-methyl-1-propanol	ND	< 500		1590	1610	µg/g	98.8	70 - 130	
Benzene	ND	< 1		3.38	4.79	µg/g	70.6	60 - 120	
Isopropyl Acetate	ND	< 200		1260	1650	µg/g	76.4	60 - 120	
Heptane	ND	< 200		1260	1630	µg/g	77.3	60 - 120	
1-Butanol	ND	< 500		1550	1600	µg/g	96.9	70 - 130	
Propyl Acetate	ND	< 500		1420	1600	µg/g	88.8	70 - 130	
1,4-Dioxane	ND	< 100		400	523	µg/g	76.5	60 - 120	
2-Ethoxyethanol	ND	< 30		128	179	µg/g	71.5	60 - 120	
Methylisobutylketone	ND	< 500		1420	1600	µg/g	88.8	70 - 130	
3-Methyl-1-butanol	ND	< 500		1510	1600	µg/g	94.4	70 - 130	
Ethylene Glycol	ND	< 200		311	508	µg/g	61.5	60 - 120	
Toluene	ND	< 100		391	496	µg/g	78.8	60 - 120	
Isobutyl Acetate	ND	< 500		1410	1610	µg/g	87.6	70 - 130	
1-Pentanol	ND	< 500		1590	1600	µg/g	99.4	70 - 130	
Butyl Acetate	ND	< 500		1400	1610	µg/g	87.0	70 - 130	
Ethylbenzene	ND	< 200		718	978	µg/g	73.4	60 - 120	
m,p-Xylene	ND	< 200		722	994	µg/g	72.6	60 - 120	
o-Xylene	ND	< 200		708	982	µg/g	72.1	60 - 120	
Cumene	ND	< 30		111	171	µg/g	64.9	60 - 120	
Anisole	ND	< 500		1440	1600	µg/g	90.0	70 - 130	
DMSO	ND	< 500		1160	1620	µg/g	71.6	70 - 130	
1,2-dimethoxyethane	ND	< 50		159	186	µg/g	85.5	70 - 130	
Triethylamine	ND	< 500		1390	1600	µg/g	86.9	70 - 130	
N,N-dimethylformamide	ND	< 150		436	480	µg/g	90.8	70 - 130	
N,N-dimethylacetamide	ND	< 150		418	483	µg/g	86.5	70 - 130	
Pyridine	ND	< 50		135	168	µg/g	80.4	70 - 130	
Silolane	ND	< 50		153	161	µg/g	95.0	70 - 130	
1,2-Dichloroethane	ND	< 1		0.808	1	µg/g	80.8	70 - 130	
Chloroform	ND	< 1		0.822	1	µg/g	82.2	70 - 130	
Trichloroethylene	ND	< 1		1.18	1	µg/g	118.0	70 - 130	
1,1-Dichloroethane	ND	< 1		0.725	1	µg/g	72.5	70 - 130	



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QC- Sample Duplicate		Sample ID: 23-009704-0001						
Analyte	Result	Org. Result	LOQ Units	RPD	Limits	Accept/ Fail	Notes	
Propane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Isobutane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Butane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
2,2-Dimethylpropane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Methanol	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Ethylene Oxide	ND	ND	30 µg/g	0.0	< 20	Acceptable		
2-Methylbutane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Pentane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Ethanol	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Ethyl Ether	ND	ND	200 µg/g	0.0	< 20	Acceptable		
2,2-Dimethylbutane	ND	ND	30 µg/g	0.0	< 20	Acceptable		
Acetone	ND	ND	200 µg/g	0.0	< 20	Acceptable		
2-Propanol	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Ethyl Formate	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Acetonitrile	ND	ND	100 µg/g	0.0	< 20	Acceptable		
Methyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable		
2,3-Dimethylbutane	ND	ND	30 µg/g	0.0	< 20	Acceptable		
Dichloromethane	ND	ND	60 µg/g	0.0	< 20	Acceptable		
2-Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable		
MTBE	ND	ND	500 µg/g	0.0	< 20	Acceptable		
3-Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable		
Hexane	ND	ND	30 µg/g	0.0	< 20	Acceptable		
1-Propanol	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Methylethylketone	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Ethyl acetate	ND	ND	200 µg/g	0.0	< 20	Acceptable		
2-Butanol	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Tetrahydrofuran	ND	ND	100 µg/g	0.0	< 20	Acceptable		
Cyclohexane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
2-methyl-1-propanol	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Benzene	ND	ND	1 µg/g	0.0	< 20	Acceptable		
Isopropyl Acetate	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Heptane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
1-Butanol	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Propyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable		
1,4-Dioxane	ND	ND	100 µg/g	0.0	< 20	Acceptable		
2-Ethoxyethanol	ND	ND	30 µg/g	0.0	< 20	Acceptable		
Methylisobutylketone	ND	ND	500 µg/g	0.0	< 20	Acceptable		
3-Methyl-1-butanol	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Ethylene Glycol	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Toluene	ND	ND	100 µg/g	0.0	< 20	Acceptable		
Isobutyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable		
1-Pentanol	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Butyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Ethylbenzene	ND	ND	200 µg/g	0.0	< 20	Acceptable		
m,p-Xylene	ND	ND	200 µg/g	0.0	< 20	Acceptable		
o-Xylene	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Cumene	ND	ND	30 µg/g	0.0	< 20	Acceptable		
Anisole	ND	ND	500 µg/g	0.0	< 20	Acceptable		
DMSO	ND	ND	500 µg/g	0.0	< 20	Acceptable		
1,2-dimethoxyethane	ND	ND	50 µg/g	0.0	< 20	Acceptable		
Triethylamine	ND	ND	500 µg/g	0.0	< 20	Acceptable		
N,N-dimethylformamide	ND	ND	150 µg/g	0.0	< 20	Acceptable		
N,N-dimethylacetamide	ND	ND	150 µg/g	0.0	< 20	Acceptable		
Pyridine	ND	ND	50 µg/g	0.0	< 20	Acceptable		
Sulfolane	ND	ND	50 µg/g	0.0	< 20	Acceptable		
1,2-Dichloroethane	ND	ND	1 µg/g	0.0	< 20	Acceptable		
Chloroform	ND	ND	1 µg/g	0.0	< 20	Acceptable		
Trichloroethylene	ND	ND	1 µg/g	0.0	< 20	Acceptable		
1,1-Dichloroethane	ND	ND	1 µg/g	0.0	< 20	Acceptable		

Abbreviations

ND - None Detected at or above MRL
 RPD - Relative Percent Difference
 LOQ - Limit of Quantitation

Units of Measure:

µg/g - Microgram per gram or ppm



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 23-009781/D003.R000
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12423 NE Whitaker Way
 Portland, OR 97230
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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.