



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



Report Number: 22-007510/D003.R000
Report Date: 07/05/2022

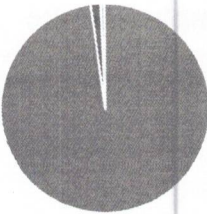
Received: 06/27/22 10:45

Product identity: Organic Broad-Spectrum Hemp Oil Lot ID: O2BAX00021002-PSBO5

Laboratory ID: 22-007510-0001

Summary

Potency:

Analyte	Result (%)		
CBD	89.8		CBD-Total 89.8%
CBT [†]	1.38		
CBDV [†]	0.511		THC-Total <LOQ (Reported in percent of total sample)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
(-)-Guaiaol [†]	0.661	44.07%	a-Bisabolol [†]	0.637	42.47%
β-Caryophyllene [†]	0.133	8.87%	Humulene [†]	0.0685	4.57%
Total Terpenes [†]	1.50	100.00%			

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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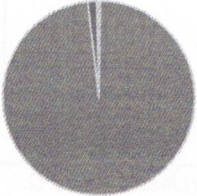
Laboratory ID: 22-007510-0001

Evidence of Cooling: No

Temp: 25.2 °C

Relinquished by: UPS

Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod)			Units %	Batch: 2205603	Analyze: 7/1/22 12:49:00 AM
Analyte	As Received	Dry weight	LOQ	Notes		
CBC	< LOQ		0.0752			
CBC-A†	< LOQ		0.0752			
CBC-Total†	< LOQ		0.141			
CBD	89.8		0.752			
CBD-A	< LOQ		0.0752			
CBD-Total	89.8		0.818			
CBDV†	0.511		0.0752			
CBDV-A†	< LOQ		0.0752			
CBDV-Total†	0.511		0.140			
CBE†	< LOQ		0.0752			
CBG†	< LOQ		0.0752			
CBG-A†	< LOQ		0.0752			
CBG-Total	< LOQ		0.140			
CBL†	< LOQ		0.0752			
CBL-A†	< LOQ		0.0752			
CBL-Total†	< LOQ		0.141			
CBN	< LOQ		0.0752			
CBT†	1.38		0.0752			
Δ8-THC	< LOQ		0.0752			
Δ8-THCV	< LOQ		0.0752			
Δ9-THC	< LOQ		0.0752			
exo-THC	< LOQ		0.0752			
THC-A	< LOQ		0.0752			
THC-Total	< LOQ		0.141			
THCV†	< LOQ		0.0752			
THCV-A†	< LOQ		0.0752			
THCV-Total†	< LOQ		0.140			
Total Cannabinoids†	91.7					



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aerobic Plate Count	< LOQ	10,000.00	cfu/g	10	2205477	06/30/22	AOAC 990.12 (Petrifilm)	pass	X, I
E.coli	< LOQ	100.00	cfu/g	10	2205475	06/30/22	AOAC 991.14 (Petrifilm)	pass	X, I
Total Coliforms	< LOQ	100.00	cfu/g	10	2205475	06/30/22	AOAC 991.14 (Petrifilm)	pass	X, I
Staphylococcus aureus	< LOQ		cfu/g	10	2205479	06/29/22	AOAC 2003.07		X, I
Mold (RAPID Petrifilm)	< LOQ	1,000.00	cfu/g	10	2205476	07/01/22	AOAC 2014.05 (RAPID)	pass	X, I
Yeast (RAPID Petrifilm)	< LOQ	1,000.00	cfu/g	10	2205476	07/01/22	AOAC 2014.05 (RAPID)	pass	X, I
E. coli, O157:H7 (by PCR)	Negative		/1g		2205482	06/29/22	AOAC 2019.03		X, I
Listeria spp.	Negative		/1g		2205481	06/29/22	AOAC 2019.10		X, I
Salmonella spp. by PCR	Negative		/1g		2205480	06/29/22	AOAC 2020.02		X, I

Solvents

Method: Residual Solvents by GC/MS Units µg/g Batch 2205570 Analyze 06/30/22 02:38 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
2-Methylbutane	< LOQ	1000	200	pass		2-Methylpentane	< LOQ	60.0	30.0	pass	
2-Propanol (IPA)	< LOQ	1000	200	pass		2,2-Dimethylbutane	< LOQ	60.0	30.0	pass	
2,2-Dimethylpropane	< LOQ	1000	200	pass		2,3-Dimethylbutane	< LOQ	60.0	30.0	pass	
3-Methylpentane	< LOQ	60.0	30.0	pass		Acetone	< LOQ	1000	200	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	1000	400	pass	
Ethanol	< LOQ	1000	200	pass		Ethyl acetate	< LOQ	1000	200	pass	
Hexanes (sum)	< LOQ	60.0	150	pass		m,p-Xylene	< LOQ	430	200	pass	
Methanol	< LOQ	600	200	pass		Methylpropane	< LOQ	1000	200	pass	
n-Butane	< LOQ	1000	200	pass		n-Heptane	< LOQ	1000	200	pass	
n-Hexane	< LOQ	60.0	30.0	pass		n-Pentane	< LOQ	1000	200	pass	
o-Xylene	< LOQ	430	200	pass		Pentanes (sum)	< LOQ	1000	600	pass	
Propane	< LOQ	1000	200	pass		Toluene	< LOQ	180	100	pass	
Total Xylenes	< LOQ	430	400	pass							



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Pesticides						Method: A OAC 2007.01 & EN 15662 (mod)						Units mg/kg Batch 2205582						Analyze 06/30/22 04:15 PM					
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.25	0.070	pass		Acephate	< LOQ	0.050	0.020	pass		Acetamiprid	< LOQ	0.050	0.050	pass		Allethrin	< LOQ	0.10	0.100	pass	
Acequinocyl	< LOQ	0.030	0.025	pass		Acetamiprid	< LOQ	0.050	0.050	pass		Allethrin	< LOQ	0.10	0.100	pass		Azadirachtin	< LOQ	1.0	0.500	pass	
Aldicarb	< LOQ	0.50	0.100	pass		Allethrin	< LOQ	0.10	0.100	pass		Azadirachtin	< LOQ	1.0	0.500	pass		Benzovindiflupyr	< LOQ	0.010	0.010	pass	
Atrazine	< LOQ	0.0250	0.025	pass		Benzovindiflupyr	< LOQ	0.010	0.010	pass		Bifenthrin	< LOQ	1.0	0.100	pass		Buprofezin	< LOQ	0.020	0.010	pass	
Azoxystrobin	< LOQ	0.010	0.010	pass		Bifenthrin	< LOQ	1.0	0.100	pass		Buprofezin	< LOQ	0.020	0.010	pass		Carbaryl	< LOQ	0.025	0.025	pass	
Bifenazate	< LOQ	0.010	0.010	pass		Buprofezin	< LOQ	0.020	0.010	pass		Carbaryl	< LOQ	0.025	0.025	pass		Chlorantraniliprole	< LOQ	0.020	0.010	pass	
Boscalid	< LOQ	0.010	0.010	pass		Carbaryl	< LOQ	0.025	0.025	pass		Chlorantraniliprole	< LOQ	0.020	0.010	pass		Chlorfenapyr	< LOQ	1.5	0.100	pass	
Captan	< LOQ		0.700			Chlorantraniliprole	< LOQ	0.020	0.010	pass		Chlorfenapyr	< LOQ	1.5	0.100	pass		Clofentezine	< LOQ	0.010	0.010	pass	
Carbofuran	< LOQ	0.010	0.010	pass		Chlorfenapyr	< LOQ	1.5	0.100	pass		Clofentezine	< LOQ	0.010	0.010	pass		Coumaphos	< LOQ	0.010	0.010	pass	
Chlordane (cis+trans)	< LOQ		0.100			Clofentezine	< LOQ	0.010	0.010	pass		Coumaphos	< LOQ	0.010	0.010	pass		Cyfluthrin	< LOQ	0.20	0.400	pass	
Chlorpyrifos	< LOQ	0.50	0.010	pass		Coumaphos	< LOQ	0.010	0.010	pass		Cyfluthrin	< LOQ	0.20	0.400	pass		Cypermethrin	< LOQ	0.30	0.300	pass	
Clothianidin	< LOQ	0.025	0.025	pass		Cyfluthrin	< LOQ	0.20	0.400	pass		Cypermethrin	< LOQ	0.30	0.300	pass		Daminozide	< LOQ	0.10	0.050	pass	
Cyantraniliprole	< LOQ	0.010	0.010	pass		Cypermethrin	< LOQ	0.30	0.300	pass		Daminozide	< LOQ	0.10	0.050	pass		Diazinon	< LOQ	0.020	0.010	pass	
Cyhalothrin, lambda	< LOQ	0.0200	0.250	pass		Daminozide	< LOQ	0.10	0.050	pass		Diazinon	< LOQ	0.020	0.010	pass		Dimethoate	< LOQ	0.010	0.010	pass	
Cyprodinil	< LOQ	0.010	0.010	pass		Diazinon	< LOQ	0.020	0.010	pass		Dimethoate	< LOQ	0.010	0.010	pass		Dinotefuran	< LOQ	0.050	0.050	pass	
Deltamethrin	< LOQ	0.50	0.500	pass		Dimethoate	< LOQ	0.010	0.010	pass		Dinotefuran	< LOQ	0.050	0.050	pass		Dodemorph	< LOQ	0.050	0.050	pass	
Dichlorvos	< LOQ	0.050	0.050	pass		Dinotefuran	< LOQ	0.050	0.050	pass		Dodemorph	< LOQ	0.050	0.050	pass		Endosulfan II (beta)	< LOQ	2.5	0.050	pass	
Dimethomorph	< LOQ	0.050	0.050	pass		Dodemorph	< LOQ	0.050	0.050	pass		Endosulfan II (beta)	< LOQ	2.5	0.050	pass		Ethoprophos	< LOQ	0.010	0.010	pass	
Diuron	< LOQ	0.125	0.125	pass		Endosulfan II (beta)	< LOQ	2.5	0.050	pass		Ethoprophos	< LOQ	0.010	0.010	pass		Etoxazole	< LOQ	0.020	0.010	pass	
Endosulfan I (alpha)	< LOQ	2.5	0.050	pass		Ethoprophos	< LOQ	0.010	0.010	pass		Etoxazole	< LOQ	0.020	0.010	pass		Fenhexamid	< LOQ	0.13	0.100	pass	
Endosulfan sulfate	< LOQ	2.5	0.050	pass		Etoxazole	< LOQ	0.020	0.010	pass		Fenhexamid	< LOQ	0.13	0.100	pass		Fenpyroximate	< LOQ	0.020	0.020	pass	
Etofenprox	< LOQ	0.050	0.010	pass		Fenhexamid	< LOQ	0.13	0.100	pass		Fenpyroximate	< LOQ	0.020	0.020	pass		Fenthion	< LOQ	0.010	0.010	pass	
Etridiazole	< LOQ	0.15	0.050	pass		Fenpyroximate	< LOQ	0.020	0.020	pass		Fenthion	< LOQ	0.010	0.010	pass		Fipronil	< LOQ	0.010	0.010	pass	
Fenoxycarb	< LOQ	0.010	0.010	pass		Fenthion	< LOQ	0.010	0.010	pass		Fipronil	< LOQ	0.010	0.010	pass		Fludioxonil	< LOQ	0.010	0.010	pass	
Fensulfathion	< LOQ	0.010	0.010	pass		Fipronil	< LOQ	0.010	0.010	pass		Fludioxonil	< LOQ	0.010	0.010	pass		Hexythiazox	< LOQ	0.010	0.010	pass	
Fenvalerate	< LOQ		0.200			Fludioxonil	< LOQ	0.010	0.010	pass		Hexythiazox	< LOQ	0.010	0.010	pass		Imidacloprid	< LOQ	0.010	0.010	pass	
Flonicamid	< LOQ	0.025	0.025	pass		Hexythiazox	< LOQ	0.010	0.010	pass		Imidacloprid	< LOQ	0.010	0.010	pass		Kinoprene	< LOQ	1.3	0.050	pass	
Fluopyram	< LOQ	0.010	0.010	pass		Imidacloprid	< LOQ	0.010	0.010	pass		Kinoprene	< LOQ	1.3	0.050	pass		Malathion	< LOQ	0.010	0.010	pass	
Imazalil	< LOQ	0.010	0.010	pass		Kinoprene	< LOQ	1.3	0.050	pass		Malathion	< LOQ	0.010	0.010	pass		Methiocarb	< LOQ	0.010	0.010	pass	
Iprodione	< LOQ	0.50	0.500	pass		Malathion	< LOQ	0.010	0.010	pass		Methiocarb	< LOQ	0.010	0.010	pass		Methoprene	< LOQ	2.0	1.00	pass	
Kresoxim-methyl	< LOQ	0.15	0.010	pass		Methiocarb	< LOQ	0.010	0.010	pass		Methoprene	< LOQ	2.0	1.00	pass		MGK-264	< LOQ	0.050	0.050	pass	
Metalaxyl	< LOQ	0.010	0.010	pass		Methoprene	< LOQ	2.0	1.00	pass		MGK-264	< LOQ	0.050	0.050	pass		Naled	< LOQ	0.10	0.100	pass	
Methomyl	< LOQ	0.025	0.025	pass		MGK-264	< LOQ	0.050	0.050	pass		Naled	< LOQ	0.10	0.100	pass		Oxamyl	< LOQ	1.5	0.500	pass	
Mevinphos	< LOQ	0.025	0.025	pass		Naled	< LOQ	0.10	0.100	pass		Oxamyl	< LOQ	1.5	0.500	pass		Parathion-Methyl	< LOQ	0.050	0.030	pass	
Myclobutanil	< LOQ	0.010	0.010	pass		Oxamyl	< LOQ	1.5	0.500	pass		Parathion-Methyl	< LOQ	0.050	0.030	pass		Phenothrin	< LOQ	0.050	0.025	pass	
Novaluron	< LOQ	0.025	0.025	pass		Parathion-Methyl	< LOQ	0.050	0.030	pass		Phenothrin	< LOQ	0.050	0.025	pass		Piperonyl butoxide	< LOQ	1.3	0.200	pass	
Paclobutrazole	< LOQ	0.010	0.010	pass		Phenothrin	< LOQ	0.050	0.025	pass		Piperonyl butoxide	< LOQ	1.3	0.200	pass		Prallethrin	< LOQ	0.050	0.050	pass	
Permethrin	< LOQ	0.50	0.040	pass		Piperonyl butoxide	< LOQ	1.3	0.200	pass		Prallethrin	< LOQ	0.050	0.050	pass		Propoxur	< LOQ	0.010	0.010	pass	
Phosmet	< LOQ	0.020	0.010	pass		Prallethrin	< LOQ	0.050	0.050	pass		Propoxur	< LOQ	0.010	0.010	pass		Pyrethrins (total)	< LOQ	0.050	0.025	pass	
Pirimicarb	< LOQ	0.010	0.010	pass		Propoxur	< LOQ	0.010	0.010	pass		Pyrethrins (total)	< LOQ	0.050	0.025	pass		Pyriproxyfen	< LOQ	0.0100	0.010	pass	
Propiconazole	< LOQ	0.10	0.010	pass		Pyrethrins (total)	< LOQ	0.050	0.025	pass		Pyriproxyfen	< LOQ	0.0100	0.010	pass		Resmethrin	< LOQ	0.050	0.020	pass	
Pyraclostrobin	< LOQ	0.010	0.010	pass		Pyriproxyfen	< LOQ	0.0100	0.010	pass		Resmethrin	< LOQ	0.050	0.020	pass		Spinosad	< LOQ	0.010	0.010	pass	
Pyridaben	< LOQ	0.020	0.020	pass		Resmethrin	< LOQ	0.050	0.020	pass		Spinosad	< LOQ	0.010	0.010	pass		Spiromesifen	< LOQ	3.0	0.030	pass	
Quintozone	< LOQ	0.020	0.020	pass		Spiromesifen	< LOQ	3.0	0.030	pass		Spiromesifen	< LOQ	3.0	0.030	pass							
Spinetoram	< LOQ	0.010	0.010	pass																			
Spirodiclofen	< LOQ	0.25	0.250	pass																			



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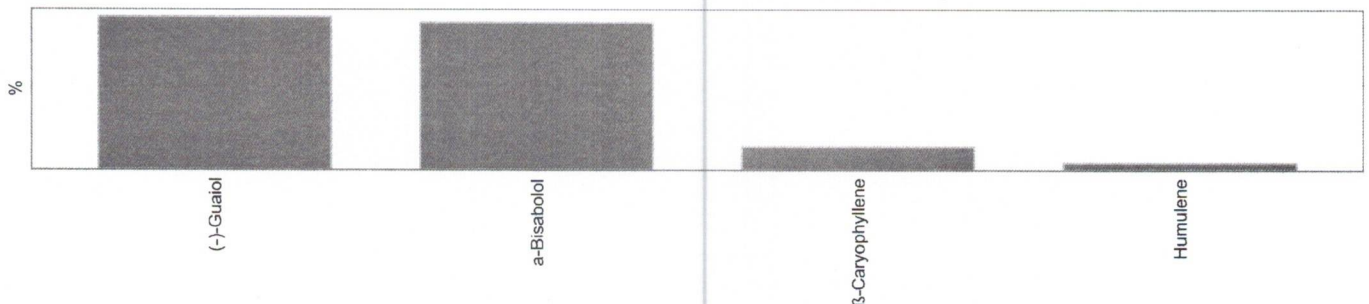


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Pesticides						Method: AOAC 2007.01 & EN 15662 (mod)						Units mg/kg		Batch 2205582		Analyze 06/30/22 04:15 PM	
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Spirotetramat	< LOQ	0.010	0.010	pass		Spiroxamine	< LOQ	0.10	0.010	pass		Spiroxamine	< LOQ	0.10	0.010	pass	
Tebuconazole	< LOQ	0.010	0.010	pass		Tebuconazole	< LOQ	0.010	0.010	pass		Tebuconazole	< LOQ	0.010	0.010	pass	
Teflubenzuron	< LOQ	0.025	0.025	pass		Tetrachlorvinphos	< LOQ	0.010	0.010	pass		Tetrachlorvinphos	< LOQ	0.010	0.010	pass	
Tetramethrin	< LOQ	0.10	0.050	pass		Thiabendazole	< LOQ	0.0200	0.020	pass		Thiabendazole	< LOQ	0.0200	0.020	pass	
Thiacloprid	< LOQ	0.010	0.010	pass		Thiamethoxam	< LOQ	0.010	0.010	pass		Thiamethoxam	< LOQ	0.010	0.010	pass	
Thiophanate-Methyl	< LOQ	0.050	0.030	pass		Trifloxystrobin	< LOQ	0.010	0.010	pass		Trifloxystrobin	< LOQ	0.010	0.010	pass	

Terpenes	Method: J AOAC 2015 V98-6				Units %	Batch 2205602	Analyze 07/01/22 05:25 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
(-)-Guaial [†]	0.661	0.019	44.067%		a-Bisabolol [†]	0.637	0.019	42.467%	
β-Caryophyllene [†]	0.133	0.019	8.867%		Humulene [†]	0.0685	0.019	4.5667%	
(-)-a-Terpineol [†]	< LOQ	0.019	0.00%		(±)-trans-Nerolidol [†]	< LOQ	0.019	0.00%	
(±)-cis-Nerolidol [†]	< LOQ	0.019	0.00%		(+)-fenchol [†]	< LOQ	0.019	0.00%	
Linalool [†]	< LOQ	0.019	0.00%		(-)-caryophyllene oxide [†]	< LOQ	0.019	0.00%	
Geranyl acetate [†]	< LOQ	0.019	0.00%		Terpinolene [†]	< LOQ	0.019	0.00%	
Geraniol [†]	< LOQ	0.019	0.00%		valencene [†]	< LOQ	0.019	0.00%	
a-pinene [†]	< LOQ	0.019	0.00%		nerol [†]	< LOQ	0.019	0.00%	
(+)-Borneol [†]	< LOQ	0.019	0.00%		a-cedrene [†]	< LOQ	0.019	0.00%	
(±)-fenchone [†]	< LOQ	0.019	0.00%		(+)-Pulegone [†]	< LOQ	0.019	0.00%	
Isoborneol [†]	< LOQ	0.019	0.00%		(-)-Isopulegol [†]	< LOQ	0.019	0.00%	
(-)-β-Pinene [†]	< LOQ	0.019	0.00%		(+)-Cedrol [†]	< LOQ	0.019	0.00%	
(±)-Camphor [†]	< LOQ	0.019	0.00%		(R)-(+)-Limonene [†]	< LOQ	0.019	0.00%	
a-phellandrene [†]	< LOQ	0.019	0.00%		a-Terpinene [†]	< LOQ	0.019	0.00%	
Camphene [†]	< LOQ	0.019	0.00%		cis-β-Ocimene [†]	< LOQ	0.006	0.00%	
d-3-Carene [†]	< LOQ	0.019	0.00%		Eucalyptol [†]	< LOQ	0.019	0.00%	
farnesene [†]	< LOQ	0.019	0.00%		gamma-Terpinene [†]	< LOQ	0.019	0.00%	
Menthol [†]	< LOQ	0.019	0.00%		p-Cymene [†]	< LOQ	0.019	0.00%	
Sabinene [†]	< LOQ	0.019	0.00%		Sabinene hydrate [†]	< LOQ	0.019	0.00%	
β-Myrcene [†]	< LOQ	0.019	0.00%		trans-β-Ocimene [†]	< LOQ	0.013	0.00%	
Total Terpenes	1.50								





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Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Arsenic	< LOQ	1.50	mg/kg	0.0961	2205516	06/28/22	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.50	mg/kg	0.0961	2205516	06/28/22	AOAC 2013.06 (mod.)	pass	X
Lead	< LOQ	0.50	mg/kg	0.0961	2205516	06/28/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	1.50	mg/kg	0.0480	2205516	06/28/22	AOAC 2013.06 (mod.)	pass	X

Mycotoxins									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aflatoxin B2†	< LOQ	5.00	µg/kg	5.00	2205545	06/30/22	AOAC 2007.01 & EN	pass	
Aflatoxin B1†	< LOQ	5.00	µg/kg	5.00	2205545	06/30/22	AOAC 2007.01 & EN	pass	
Aflatoxin G1†	< LOQ	5.00	µg/kg	5.00	2205545	06/30/22	AOAC 2007.01 & EN	pass	
Aflatoxin G2†	< LOQ	5.00	µg/kg	5.00	2205545	06/30/22	AOAC 2007.01 & EN	pass	
Ochratoxin A†	< LOQ	5.00	µg/kg	5.00	2205545	06/30/22	AOAC 2007.01 & EN	pass	
Ochratoxin B†	< LOQ		µg/kg	2.00	2205545	06/30/22	AOAC 2007.01 & EN		



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Laboratory Quality Control Results

Batch ID: 2205570

Residual Solvents				Laboratory Control Sample						
Method Blank				Result	Spike	Units	% Rec	Limits	Notes	
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes	
Propane	ND	< 200		464	572	µg/g	81.1	60 - 120		
Isobutane	ND	< 200		561	731	µg/g	76.7	60 - 120		
Butane	ND	< 200		548	731	µg/g	75.0	60 - 120		
2,2-Dimethylpropane	ND	< 200		951	936	µg/g	101.6	60 - 120		
Methanol	ND	< 200		1840	1650	µg/g	111.5	60 - 120		
Ethylene Oxide	ND	< 30		47.3	56.2	µg/g	84.2	60 - 120		
2-Methylbutane	ND	< 200		1650	1620	µg/g	101.9	60 - 120		
Pentane	ND	< 200		1690	1610	µg/g	105.0	60 - 120		
Ethanol	ND	< 200		1670	1620	µg/g	103.1	70 - 130		
Ethyl Ether	ND	< 200		1530	1600	µg/g	95.6	60 - 120		
2,2-Dimethylbutane	ND	< 30		161	167	µg/g	96.4	60 - 120		
Acetone	ND	< 200		1650	1620	µg/g	101.9	60 - 120		
2-Propanol	ND	< 200		1690	1610	µg/g	105.0	60 - 120		
Ethyl Formate	ND	< 500		1380	1620	µg/g	85.2	70 - 130		
Acetonitrile	ND	< 100		664	635	µg/g	104.6	60 - 120		
Methyl Acetate	ND	< 500		1610	1630	µg/g	98.8	70 - 130		
2,3-Dimethylbutane	ND	< 30		190	177	µg/g	107.3	60 - 120		
Dichloromethane	ND	< 60		448	498	µg/g	90.0	60 - 120		
2-Methylpentane	ND	< 30		146	166	µg/g	88.0	60 - 120		
MTBE	ND	< 500		1430	1600	µg/g	89.4	70 - 130		
3-Methylpentane	ND	< 30		170	175	µg/g	97.1	60 - 120		
Hexane	ND	< 30		168	174	µg/g	96.6	60 - 120		
1-Propanol	ND	< 500		1740	1620	µg/g	107.4	70 - 130		
Methylethylketone	ND	< 500		1580	1600	µg/g	98.8	70 - 130		
Ethyl acetate	ND	< 200		1730	1610	µg/g	107.5	60 - 120		
2-Butanol	ND	< 200		1780	1620	µg/g	109.9	60 - 120		
Tetrahydrofuran	ND	< 100		479	507	µg/g	94.5	60 - 120		
Cyclohexane	ND	< 200		1510	1610	µg/g	93.8	60 - 120		
2-methyl-1-propanol	ND	< 500		1530	1640	µg/g	93.3	70 - 130		
Benzene	ND	< 1		4.81	5.22	µg/g	92.1	60 - 120		
Isopropyl Acetate	ND	< 200		1770	1610	µg/g	109.9	60 - 120		
Heptane	ND	< 200		1680	1610	µg/g	104.3	60 - 120		
1-Butanol	ND	< 500		1550	1610	µg/g	96.3	70 - 130		
Propyl Acetate	ND	< 500		1680	1610	µg/g	104.3	70 - 130		
1,4-Dioxane	ND	< 100		466	508	µg/g	91.7	60 - 120		
2-Ethoxyethanol	ND	< 30		188	165	µg/g	113.9	60 - 120		
Methylisobutylketone	ND	< 500		1720	1610	µg/g	106.8	70 - 130		
3-Methyl-1-butanol	ND	< 500		1610	1600	µg/g	100.6	70 - 130		
Ethylene Glycol	ND	< 200		511	492	µg/g	103.9	60 - 120		
Toluene	ND	< 100		466	497	µg/g	93.8	60 - 120		
Isobutyl Acetate	ND	< 500		1670	1610	µg/g	103.7	70 - 130		
1-Pentanol	ND	< 500		1690	1600	µg/g	105.6	70 - 130		
Butyl Acetate	ND	< 200		1700	1610	µg/g	105.6	70 - 130		
Ethylbenzene	ND	< 200		944	980	µg/g	96.3	60 - 120		
m,p-Xylene	ND	< 200		925	985	µg/g	93.9	60 - 120		
o-Xylene	ND	< 200		920	965	µg/g	95.3	60 - 120		
Cumene	ND	< 30		153	168	µg/g	91.1	60 - 120		
Anisole	ND	< 500		1490	1600	µg/g	93.1	70 - 130		
DMSO	ND	< 500		1500	1610	µg/g	93.2	70 - 130		
1,2-dimethoxyethane	ND	< 50		164	165	µg/g	99.4	70 - 130		
Triethylamine	ND	< 500		1260	1620	µg/g	77.8	70 - 130		
N,N-dimethylformamide	ND	< 150		460	481	µg/g	95.6	70 - 130		
N,N-dimethylacetamide	ND	< 150		490	480	µg/g	102.1	70 - 130		
Pyridine	ND	< 50		157	171	µg/g	91.8	70 - 130		
1,2-Dichloroethane	ND	< 1		1.09	1	µg/g	109.0	70 - 130		
Chloroform	ND	< 1		1.06	1	µg/g	106.0	70 - 130		
Trichloroethylene	ND	< 1		1.01	1	µg/g	101.0	70 - 130		



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PACKAGE RECEIVING FORM

Delivery Date: 6-27 ☒ Same as Opened By Date ☐ Unsure

How was the package delivered?

☒ UPS ☐ FEDEX ☐ USPS ☐ DHL ☐ OTHER: _____

Tracking Number: 2 7AF 459 02 0307 9526

1) Was package sealed with no evidence of holes/tampering? Further custody seal/tampering notes: _____	☒ YES ☐ NO
2) Was packing material used? If YES: ☐ PEANUTS ☐ BUBBLE ☐ WRAP ☒ FOAM PAPER	☒ YES ☐ NO
3) Was a Complete Chain of Custody (COC) received? Comment (PT?, Email?): _____	☒ YES ☐ NO
4) Sample temperature upon arrival? <u>25.2 °C</u>	
5) Evidence of cooling? If YES, What kind? ☐ ICE ☐ FREEZER PACK ☐ DRY ICE Insulation? ☐ PLASTIC COOLER ☐ STYROFOAM ☐ OTHER: _____	☐ YES ☒ NO
6) Were sample containers sealed in separate plastic bags/secondary containment?	☐ YES ☒ NO
7) Did sample containers arrive in good condition? If NO: ☐ LEAKED ☐ BROKEN ☐ OTHER: _____ If NO: Suspect contamination of other samples? ☐ YES ☐ NO	☒ YES ☐ NO
8) Sample labels present?	☒ YES ☐ NO
9) Do sample labels agree with COC? If NO, number of sample containers received: _____	☒ YES ☐ NO

Sample pre-log location:

R39 R44 F44 R99 CANNA SHELF FOOD SHELF Other: _____

Other Notes:

Received By (Initials): AC Date: 6-27 Time: 10:45



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QC - Sample Duplicate

Sample ID: 22-007487-0001

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	1140	1080	200	µg/g	5.4	< 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	
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	

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



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Terpenes Quality Control Results

Method Reference: EPA5035				Batch ID: 2205602			
Method Blank				Laboratory Control Sample			
Analyte	Result	LQ	Notes	Result	LCS	Units	LCS% Rec Limits Notes
a-pinene	<LOQ	< 200		412	500	µg/g	82% 70 - 130
Camphene	<LOQ	< 200		415	500	µg/g	83% 70 - 130
Sabinene	<LOQ	< 200		434	500	µg/g	87% 70 - 130
b-Pinene	<LOQ	< 200		459	500	µg/g	92% 70 - 130
b-Myrcene	<LOQ	< 200		438	500	µg/g	88% 70 - 130
a-phellandrene	<LOQ	< 200		492	500	µg/g	98% 70 - 130
d-3-Carene	<LOQ	< 200		448	500	µg/g	90% 70 - 130
a-Terpinene	<LOQ	< 200		358	500	µg/g	72% 70 - 130
p-Cymene	<LOQ	< 200		398	500	µg/g	80% 70 - 130
D-Limonene	<LOQ	< 200		392	500	µg/g	78% 70 - 130
Eucalyptol	<LOQ	< 200		414	500	µg/g	83% 70 - 130
b-cis-Cbimene	<LOQ	< 67		118	167	µg/g	71% 70 - 130
b-trans-Cbimene	<LOQ	< 133		252	333	µg/g	75% 70 - 130
g-Terpinene	<LOQ	< 200		357	500	µg/g	71% 70 - 130
Sabinene Hydrate	<LOQ	< 200		425	500	µg/g	85% 70 - 130
Terpinolene	<LOQ	< 200		385	500	µg/g	77% 70 - 130
D-Fenchone	<LOQ	< 200		412	500	µg/g	82% 70 - 130
Linalool	<LOQ	< 200		527	500	µg/g	105% 70 - 130
Fenchol	<LOQ	< 200		466	500	µg/g	93% 70 - 130
Camphor	<LOQ	< 200		425	500	µg/g	85% 70 - 130
Isopulego	<LOQ	< 200		473	500	µg/g	95% 70 - 130
Isoborneol	<LOQ	< 200		413	500	µg/g	83% 70 - 130
Borneol	<LOQ	< 200		462	500	µg/g	92% 70 - 130
DL-Menthol	<LOQ	< 200		408	500	µg/g	82% 70 - 130
Terpineol	<LOQ	< 200		446	500	µg/g	89% 70 - 130
Nerd	<LOQ	< 200		426	500	µg/g	85% 70 - 130
Pulegone	<LOQ	< 200		453	500	µg/g	91% 70 - 130
Geraniol	<LOQ	< 200		538	500	µg/g	108% 70 - 130
Geranyl Acetate	<LOQ	< 200		422	500	µg/g	84% 70 - 130
a-Cedrene	<LOQ	< 200		464	500	µg/g	93% 70 - 130
b-Caryophyllene	<LOQ	< 200		423	500	µg/g	85% 70 - 130
a-Humulene	<LOQ	< 200		456	500	µg/g	91% 70 - 130
Valenene	<LOQ	< 200		428	500	µg/g	86% 70 - 130
cis-Nerolidol	<LOQ	< 200		407	500	µg/g	81% 70 - 130
a-Farnesene	<LOQ	< 200		471	500	µg/g	94% 70 - 130
trans-Nerolidol	<LOQ	< 200		432	500	µg/g	86% 70 - 130
Caryophyllene Oxide	<LOQ	< 200		434	500	µg/g	87% 70 - 130
Guaiol	<LOQ	< 200		466	500	µg/g	93% 70 - 130
Cedrol	<LOQ	< 200		435	500	µg/g	87% 70 - 130
a-Bisabolol	<LOQ	< 200		430	500	µg/g	86% 70 - 130

Definitions

LQ	Limit of Quantitation
LCS	Laboratory Control Sample
% REC	Percent Recovery



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Terpenes Quality Control Results

Method Reference: EPA 5035		Batch ID: 2205602					
Sample/ Sample Duplicate		Sample ID: 22-007510-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LMIT	Notes
a-pinene	<LOQ	<LOQ	198	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	198	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	198	µg/g	0%	< 20	
b-Phene	<LOQ	<LOQ	198	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	198	µg/g	0%	< 20	
a-phellandrene	<LOQ	<LOQ	198	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	198	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	198	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	198	µg/g	0%	< 20	
D-Limonene	<LOQ	<LOQ	198	µg/g	0%	< 20	
Eucalyptol	<LOQ	<LOQ	198	µg/g	0%	< 20	
b-cis-Öcimene	<LOQ	<LOQ	66.1	µg/g	0%	< 20	
b-trans-Öcimene	<LOQ	<LOQ	132	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	198	µg/g	0%	< 20	
Sabinene Hydrate	<LOQ	<LOQ	198	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	198	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	198	µg/g	0%	< 20	
Linalool	<LOQ	<LOQ	198	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	198	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	198	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	198	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	198	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	198	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	198	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	198	µg/g	0%	< 20	
Nerd	<LOQ	<LOQ	198	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	198	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	198	µg/g	0%	< 20	
Geranyl Acetate	<LOQ	<LOQ	198	µg/g	0%	< 20	
a-Öedrene	<LOQ	<LOQ	198	µg/g	0%	< 20	
b-Caryophyllene	1300	1330	198	µg/g	2%	< 20	
a-Humulene	660	685	198	µg/g	4%	< 20	
Valene	<LOQ	<LOQ	198	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	198	µg/g	0%	< 20	
a-Farnesene	880	908	198	µg/g	3%	< 20	
trans-Nerolidol	<LOQ	<LOQ	198	µg/g	0%	< 20	
Caryophyllene Oxide	<LOQ	<LOQ	198	µg/g	0%	< 20	
Quaiol	6540	6610	198	µg/g	1%	< 20	
Öadrol	<LOQ	<LOQ	198	µg/g	0%	< 20	
a-Bisabolol	6340	6370	198	µg/g	0%	< 20	

Definitions

RPD Relative Percent Difference



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Laboratory Quality Control Results

I/OAC 2015 V98-6				Batch ID: 2205603				
Laboratory Control Sample								
Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	1	0.104	0.100	%	104	80.0 - 120	Acceptable	
CBDV	1	0.114	0.100	%	114	80.0 - 120	Acceptable	
CBE	1	0.094	0.100	%	99.4	80.0 - 120	Acceptable	
CBD	1	0.099	0.100	%	99.9	90.0 - 110	Acceptable	
CBGA	1	0.0977	0.100	%	97.7	80.0 - 120	Acceptable	
CBG	1	0.0963	0.100	%	96.3	80.0 - 120	Acceptable	
CBD	1	0.103	0.100	%	103	90.0 - 110	Acceptable	
THCV	1	0.0963	0.100	%	96.3	80.0 - 120	Acceptable	
dBTHCV	1	0.0992	0.100	%	99.2	80.0 - 120	Acceptable	
THCVA	1	0.104	0.100	%	104	80.0 - 120	Acceptable	
CBN	1	0.0938	0.100	%	93.8	90.0 - 110	Acceptable	
exo-THC	1	0.0911	0.100	%	91.1	80.0 - 120	Acceptable	
dBTHC	1	0.0912	0.100	%	91.2	90.0 - 110	Acceptable	
CBTHC	1	0.0902	0.100	%	90.2	80.0 - 120	Acceptable	
CBL	1	0.0879	0.100	%	87.9	80.0 - 120	Acceptable	
9S-HHC	3	0.0874	0.100	%	87.4	80.0 - 120	Acceptable	
CBC	1	0.0884	0.100	%	88.4	80.0 - 120	Acceptable	
9R-HHC	3	0.0828	0.100	%	82.8	80.0 - 120	Acceptable	
THCA	1	0.0930	0.100	%	93.0	90.0 - 110	Acceptable	
CBGA	1	0.105	0.100	%	105	80.0 - 120	Acceptable	
CBLA	1	0.0935	0.100	%	93.5	80.0 - 120	Acceptable	
dBTHCO	3	0.106	0.100	%	106	80.0 - 120	Acceptable	
CBT	1	0.0918	0.100	%	91.8	80.0 - 120	Acceptable	
dBTHCO	3	0.0943	0.100	%	84.3	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.077	%	< 0.077	Acceptable	
CBDV	<LOQ	0.077	%	< 0.077	Acceptable	
CBE	<LOQ	0.077	%	< 0.077	Acceptable	
CBD	<LOQ	0.077	%	< 0.077	Acceptable	
CBGA	<LOQ	0.077	%	< 0.077	Acceptable	
CBG	<LOQ	0.077	%	< 0.077	Acceptable	
CBD	<LOQ	0.077	%	< 0.077	Acceptable	
THCV	<LOQ	0.077	%	< 0.077	Acceptable	
dBTHCV	<LOQ	0.077	%	< 0.077	Acceptable	
THCVA	<LOQ	0.077	%	< 0.077	Acceptable	
CBN	<LOQ	0.077	%	< 0.077	Acceptable	
exo-THC	<LOQ	0.077	%	< 0.077	Acceptable	
dBTHC	<LOQ	0.077	%	< 0.077	Acceptable	
CBL	<LOQ	0.077	%	< 0.077	Acceptable	
9S-HHC	<LOQ	0.077	%	< 0.077	Acceptable	
9R-HHC	<LOQ	0.077	%	< 0.077	Acceptable	
CBC	<LOQ	0.077	%	< 0.077	Acceptable	
THCA	<LOQ	0.077	%	< 0.077	Acceptable	
CBGA	<LOQ	0.077	%	< 0.077	Acceptable	
CBLA	<LOQ	0.077	%	< 0.077	Acceptable	
dBTHCO	<LOQ	0.077	%	< 0.077	Acceptable	
CBT	<LOQ	0.077	%	< 0.077	Acceptable	
dBTHCO	<LOQ	0.077	%	< 0.077	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



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503-254-1794



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Laboratory Quality Control Results

J AOAC 2015 V98-6									
Sample Duplicate									
Batch ID: 2205603									
Sample ID: 22-007480-0001									
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes	
CBDVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
CBDV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
CBE	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
CBD	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
CBDGA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
CBG	2.09	2.11	0.077	%	0.673	< 20	Acceptable		
CBD	0.222	0.246	0.077	%	10.5	< 20	Acceptable		
THCV	2.42	2.44	0.077	%	0.956	< 20	Acceptable		
d8THCV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
THCVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
CBN	1.07	1.08	0.077	%	0.617	< 20	Acceptable		
exo-THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
d9THC	76.4	76.5	0.077	%	0.238	< 20	Acceptable		
d8THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
CBL	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
9S-HHC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
CBC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
9R-HHC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
THCA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
CBGA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
CBLA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
d8THCO	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable		
CBT	2.69	2.69	0.077	%	0.160	< 20	Acceptable		
d9THCO	0.3912	0.4072	0.077	%	4.02	< 20	Acceptable		

Abbreviations

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

Units of Measure: