



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



Report Number: 22-011877/D002.R000
Report Date: 10/11/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/03/22 10:28

Customer: JPS Products dba DBD Move Free
Product identity: Formulated for Her- 1250mg CBD &250mg CBG
Client/Metric ID: .
Laboratory ID: 22-011877-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBC	0.0508		%		CBD-Total per Serving Size 21.7 mg/1g
CBD	2.03		%		
CBD-A	0.159		%		THC-Total per Serving Size 0.324 mg/1g
CBDV	0.00874		%		(Reported in milligrams per serving)
CBG	0.406		%		
CBT	0.0108		%		
Δ9-THC	0.0305	0.350	%		
Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	0.508		mg/1g		
CBD per 1g	20.3		mg/1g		
CBD-A per 1g	1.59		mg/1g		
CBDV per 1g	0.0874		mg/1g		
CBG per 1g	4.06		mg/1g		
CBT per 1g	0.108		mg/1g		
Δ9-THC per 1g	0.305		mg/1g		

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

Analyte	Result (mg/kg)	Limits (mg/kg)	Status
Chlorpyrifos	0.015	0.20	pass

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Customer: JPS Products dba DBD Move Free
1100 Bellevue Way NE #BA-93
Bellevue Washington 98004
United States of America (USA)

Product identity: Formulated for Her- 1250mg CBD &250mg CBG

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-011877-0001

Evidence of Cooling: No

Temp: 21.6

Relinquished by: ups

Serving Size #1: 1 g

Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod)	Units %	Batch: 2208422	Analyze: 10/4/22 11:57:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0508		%	0.00331	
CBC-A	< LOQ		%	0.00331	
CBC-Total	0.0508		%	0.00622	
CBD [±]	2.03		%	0.0331	
CBD-A [±]	0.159		%	0.00331	
CBD-Total	2.17		%	0.0360	
CBDV	0.00874		%	0.00331	
CBDV-A	< LOQ		%	0.00331	
CBDV-Total	0.00874		%	0.00618	
CBE	< LOQ		%	0.00331	
CBG	0.406		%	0.00331	
CBG-A	< LOQ		%	0.00331	
CBG-Total	0.406		%	0.00618	
CBL	< LOQ		%	0.00331	
CBL-A	< LOQ		%	0.00331	
CBL-Total	< LOQ		%	0.00622	
CBN	< LOQ		%	0.00331	
CBT	0.0108		%	0.00331	
Δ8-THCV	< LOQ		%	0.00331	
Δ10-THC	< LOQ		%	0.00331	
Δ8-THC [±]	< LOQ		%	0.00331	
Δ9-THC [±]	0.0305	0.350	%	0.00331	
exo-THC	< LOQ		%	0.00331	
THC-A [±]	< LOQ		%	0.00331	
THC-Total	0.0305		%	0.00622	
THCV	< LOQ		%	0.00331	
THCV-A	< LOQ		%	0.00331	
THCV-Total	< LOQ		%	0.00618	
Total Cannabinoids	2.70		%		



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Potency per 1g **Method:** J AOAC 2015 V98-6 (mod) **Units mg/se** **Batch:** 2208422 **Analyze:** 10/4/22 11:57:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	0.508		mg/1g	0.0331	
CBC-A per 1g	< LOQ		mg/1g	0.0331	
CBC-Total per 1g	0.508		mg/1g	0.0622	
CBD per 1g	20.3		mg/1g	0.331	
CBD-A per 1g	1.59		mg/1g	0.0331	
CBD-Total per 1g	21.7		mg/1g	0.360	
CBDV per 1g	0.0874		mg/1g	0.0331	
CBDV-A per 1g	< LOQ		mg/1g	0.0331	
CBDV-Total per 1g	0.111		mg/1g	0.0618	
CBE per 1g	< LOQ		mg/1g	0.0331	
CBG per 1g	4.06		mg/1g	0.0331	
CBG-A per 1g	< LOQ		mg/1g	0.0331	
CBG-Total per 1g	4.06		mg/1g	0.0618	
CBL per 1g	< LOQ		mg/1g	0.0331	
CBL-A per 1g	< LOQ		mg/1g	0.0331	
CBL-Total per 1g	< LOQ		mg/1g	0.0622	
CBN per 1g	< LOQ		mg/1g	0.0331	
CBT per 1g	0.108		mg/1g	0.0331	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0331	
Δ10-THC per 1g	< LOQ		mg/1g	0.0331	
Δ8-THC per 1g	< LOQ		mg/1g	0.0331	
Δ9-THC per 1g	0.305		mg/1g	0.0331	
exo-THC per 1g	< LOQ		mg/1g	0.0331	
THC-A per 1g	< LOQ		mg/1g	0.0331	
THC-Total per 1g	0.324		mg/1g	0.0622	
THCV per 1g	< LOQ		mg/1g	0.0331	
THCV-A per 1g	< LOQ		mg/1g	0.0331	
THCV-Total per 1g	< LOQ		mg/1g	0.0622	
Total Cannabinoids per 1g	27.0		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2208351	10/06/22 AOAC 990.12 (Petrifilm)		
E.coli	< LOQ		cfu/g	10	2208349	10/05/22 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2208349	10/05/22 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2208350	10/07/22 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2208350	10/07/22 AOAC 2014.05 (RAPID)		
Salmonella spp. by PCR	Negative		/25g		2208354	10/05/22 AOAC 2020.02		
EHEC including STEC	Negative		/25g		2208355	10/05/22 AOAC RI 121806		



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Solvents											Method: Residual Solvents by GC/MS					Units µg/g		Batch 2208495		Analyze 10/07/22 12:04 PM				
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes							
1-Butanol	< LOQ	5000	500	pass		1-Pentanol	< LOQ	5000	500	pass		1-Pentanol	< LOQ	5000	500	pass								
1,1-Dichloroethane	< LOQ		1.00			1,2-Dichloroethane	< LOQ		1.00			1,2-Dichloroethane	< LOQ		1.00									
1,2-Dimethoxyethane	< LOQ		50.0			1,4-Dioxane [‡]	< LOQ	380	100	pass		1,4-Dioxane [‡]	< LOQ	380	100	pass								
2-Butanol [‡]	< LOQ	5000	200	pass		2-Ethoxyethanol [‡]	< LOQ	160	30.0	pass		2-Ethoxyethanol [‡]	< LOQ	160	30.0	pass								
2-methyl-1-propanol	< LOQ		500			2-Methylbutane (Isopentane)	< LOQ		200			2-Methylbutane (Isopentane)	< LOQ		200									
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA) [‡]	< LOQ	5000	200	pass		2-Propanol (IPA) [‡]	< LOQ	5000	200	pass								
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200			2,2-Dimethylpropane (neo-pentane)	< LOQ		200									
2,3-Dimethylbutane	< LOQ		30.0			3-Methyl-(1)-Butanol	< LOQ		500			3-Methyl-(1)-Butanol	< LOQ		500									
3-Methylpentane	< LOQ		30.0			Acetic Acid	< LOQ		250			Acetic Acid	< LOQ		250									
Acetone [‡]	< LOQ	5000	200	pass		Acetonitrile [‡]	< LOQ	410	100	pass		Acetonitrile [‡]	< LOQ	410	100	pass								
Anisole	< LOQ		500			Benzene [‡]	< LOQ	2.00	1.00	pass		Benzene [‡]	< LOQ	2.00	1.00	pass								
Butanes (sum)	< LOQ	5000	400	pass		Butyl acetate	< LOQ		500			Butyl acetate	< LOQ		500									
Chloroform	< LOQ		1.00			Cyclohexane [‡]	< LOQ	3880	200	pass		Cyclohexane [‡]	< LOQ	3880	200	pass								
DMSO	< LOQ	5000	500	pass		Ethanol [‡]	< LOQ		200			Ethanol [‡]	< LOQ		200									
Ethyl acetate [‡]	< LOQ	5000	200	pass		Ethyl benzene	< LOQ		200			Ethyl benzene	< LOQ		200									
Ethyl ether [‡]	< LOQ	5000	200	pass		Ethyl Formate	< LOQ		500			Ethyl Formate	< LOQ		500									
Ethylene glycol [‡]	< LOQ	620	200	pass		Ethylene oxide	< LOQ	50.0	1.00	pass		Ethylene oxide	< LOQ	50.0	1.00	pass								
Formic Acid	< LOQ		250			Hexanes (sum)	< LOQ	290	150	pass		Hexanes (sum)	< LOQ	290	150	pass								
Isobutyl acetate	< LOQ	5000	500	pass		Isopropyl acetate [‡]	< LOQ	5000	200	pass		Isopropyl acetate [‡]	< LOQ	5000	200	pass								
Isopropylbenzene (Cumene) [‡]	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200			m,p-Xylene	< LOQ		200									
Methanol [‡]	< LOQ	3000	200	pass		Methyl-t-butyl ether	< LOQ		500			Methyl-t-butyl ether	< LOQ		500									
Methylacetat	< LOQ		500			Methylene chloride	< LOQ	600	1.00	pass		Methylene chloride	< LOQ	600	1.00	pass								
Methylethylketone	< LOQ		500			Methylisobutylketone	< LOQ		500			Methylisobutylketone	< LOQ		500									
Methylpropane (Isobutane)	< LOQ		200			n-Butane [‡]	< LOQ		200			n-Butane [‡]	< LOQ		200									
n-Heptane [‡]	< LOQ	5000	200	pass		n-Hexane [‡]	< LOQ		30.0			n-Hexane [‡]	< LOQ		30.0									
n-Pentane [‡]	< LOQ		200			n-Propanol	< LOQ		500			n-Propanol	< LOQ		500									
N,N-dimethylacetamide	< LOQ	1090	200	pass		N,N-dimethylformamide	< LOQ		200			N,N-dimethylformamide	< LOQ		200									
o-Xylene	< LOQ		200			Pentanes (sum)	< LOQ	5000	600	pass		Pentanes (sum)	< LOQ	5000	600	pass								
Propane [‡]	< LOQ	5000	200	pass		Propyl Acetate	< LOQ		500			Propyl Acetate	< LOQ		500									
Pyridine	< LOQ	200	50.0	pass		Sulfolane	< LOQ	160	50.0	pass		Sulfolane	< LOQ	160	50.0	pass								
Tetrahydrofuran [‡]	< LOQ	720	100	pass		Toluene [‡]	< LOQ	890	100	pass		Toluene [‡]	< LOQ	890	100	pass								
Total Residual Solvents	< LOQ		5,000			Total Xylenes [‡]	< LOQ		400			Total Xylenes [‡]	< LOQ		400									
Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass		Trichloroethylene	< LOQ		1.00			Trichloroethylene	< LOQ		1.00									
Triethylamine	< LOQ		500																					



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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod)											
Units mg/kg Batch 2208385 Analyze 10/04/22 03:08 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.070	pass		Acephate	< LOQ	0.40	0.020	pass	
Acequinocyl	< LOQ	2.0	0.025	pass		Acetamidrid	< LOQ	0.20	0.050	pass	
Aldicarb	< LOQ	0.40	0.100	pass		Allethrin	< LOQ		0.100		
Atrazine	< LOQ		0.025			Azadirachtin	< LOQ		0.500		
Azoxystrobin	< LOQ	0.20	0.010	pass		Benzovindiflupyr	< LOQ		0.010		
Bifenazate	< LOQ	0.20	0.010	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.010	pass		Buprofezin	< LOQ		0.010		
Captan	< LOQ		0.700			Carbaryl	< LOQ	0.20	0.025	pass	
Carbofuran	< LOQ	0.20	0.010	pass		Chlorantraniliprole	< LOQ	0.20	0.010	pass	
Chlordane (cis+trans)	< LOQ		0.100			Chlorfenapyr	< LOQ	1.0	0.100	pass	
Chlorpyrifos	0.015	0.20	0.010	pass		Clofentezine	< LOQ	0.20	0.010	pass	
Clothianidin	< LOQ		0.025			Coumaphos	< LOQ		0.010		
Cyantraniliprole	< LOQ		0.010			Cyfluthrin	< LOQ	1.0	0.400	pass	
Cyhalothrin,lambda	< LOQ		0.250			Cypermethrin	< LOQ	1.0	0.300	pass	
Cyprodinil	< LOQ		0.010			Daminozide	< LOQ	1.0	0.050	pass	
Deltamethrin	< LOQ		0.500			Diazinon	< LOQ	0.20	0.010	pass	
Dichlorvos	< LOQ	1.0	0.050	pass		Dimethoate	< LOQ	0.20	0.010	pass	
Dimethomorph	< LOQ		0.050			Dinotefuran	< LOQ		0.050		
Diuron	< LOQ		0.125			Dodemorph	< LOQ		0.050		
Endosulfan I (alpha)	< LOQ		0.050			Endosulfan II (beta)	< LOQ		0.050		
Endosulfan sulfate	< LOQ		0.050			Ethoprophos	< LOQ	0.20	0.010	pass	
Etofenprox	< LOQ	0.40	0.010	pass		Etoxazole	< LOQ	0.20	0.010	pass	
Etridiazole	< LOQ		0.050			Fenhexamid	< LOQ		0.100		
Fenoxycarb	< LOQ	0.20	0.010	pass		Fenpyroximate	< LOQ	0.40	0.020	pass	
Fensulfothion	< LOQ		0.010			Fenthion	< LOQ		0.010		
Fenvalerate	< LOQ		0.200			Fipronil	< LOQ	0.40	0.010	pass	
Flonicamid	< LOQ	1.0	0.025	pass		Fludioxonil	< LOQ	0.40	0.010	pass	
Fluopyram	< LOQ		0.010			Hexythiazox	< LOQ	1.0	0.010	pass	
Imazalil	< LOQ	0.20	0.010	pass		Imidacloprid	< LOQ	0.40	0.010	pass	
Iprodione	< LOQ		0.500			Kinoprene	< LOQ		0.050		
Kresoxim-methyl	< LOQ	0.40	0.010	pass		Malathion	< LOQ	0.20	0.010	pass	
Metalaxyl	< LOQ	0.20	0.010	pass		Methiocarb	< LOQ	0.20	0.010	pass	
Methomyl	< LOQ	0.40	0.025	pass		Methoprene	< LOQ		1.00		
Mevinphos	< LOQ		0.025			MGK-264	< LOQ	0.20	0.050	pass	
Myclobutanil	< LOQ	0.20	0.010	pass		Naled	< LOQ	0.50	0.100	pass	
Novaluron	< LOQ		0.025			Oxamyl	< LOQ	1.0	0.500	pass	
Paclobutrazole	< LOQ	0.40	0.010	pass		Parathion-Methyl	< LOQ	0.20	0.030	pass	
Permethrin	< LOQ	0.20	0.040	pass		Phenothrin	< LOQ		0.025		
Phosmet	< LOQ	0.20	0.010	pass		Piperonyl butoxide	< LOQ	2.0	0.200	pass	
Pirimicarb	< LOQ		0.010			Prallethrin	< LOQ	0.20	0.050	pass	
Propiconazole	< LOQ	0.40	0.010	pass		Propoxur	< LOQ	0.20	0.010	pass	
Pyraclostrobin	< LOQ		0.010			Pyrethrins (total)	< LOQ		0.025		
Pyridaben	< LOQ	0.20	0.020	pass		Pyriproxyfen	< LOQ		0.010		
Quintozene	< LOQ		0.020			Resmethrin	< LOQ		0.020		
Spinetoram	< LOQ		0.010			Spinosad	< LOQ	0.20	0.010	pass	
Spirodiclofen	< LOQ	0.20	0.250	pass		Spiromesifen	< LOQ	0.20	0.030	pass	



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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod)						Units mg/kg	Batch 2208385	Analyze 10/04/22 03:08 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Spirotetramat	< LOQ	0.20	0.010	pass		Spiroxamine	< LOQ	0.40	0.010	pass	
Tebuconazole	< LOQ	0.40	0.010	pass		Tebufenozide	< LOQ		0.010		
Teflubenzuron	< LOQ		0.025			Tetrachlorvinphos	< LOQ		0.010		
Tetramethrin	< LOQ		0.050			Thiabendazole	< LOQ		0.020		
Thiacloprid	< LOQ	0.20	0.010	pass		Thiamethoxam	< LOQ	0.20	0.010	pass	
Thiophanate-Methyl	< LOQ		0.030			Trifloxystrobin	< LOQ	0.20	0.010	pass	

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes	
Arsenic	< LOQ	0.200	mg/kg	0.0895	2208488	10/06/22	AOAC 2013.06 (mod.)	pass		
Cadmium	< LOQ	0.200	mg/kg	0.0895	2208488	10/06/22	AOAC 2013.06 (mod.)	pass		
Lead	< LOQ	0.500	mg/kg	0.0895	2208488	10/06/22	AOAC 2013.06 (mod.)	pass		
Mercury	< LOQ	0.100	mg/kg	0.0448	2208488	10/06/22	AOAC 2013.06 (mod.)	pass		

Mycotoxins										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes	
Aflatoxin B2 [¶]	< LOQ		µg/kg	5.00	2208565	10/10/22	AOAC 2007.01 & EN 15662 (mod) ^P			
Aflatoxin B1 [¶]	< LOQ		µg/kg	5.00	2208565	10/10/22	AOAC 2007.01 & EN 15662 (mod) ^P			
Aflatoxin G1 [¶]	< LOQ		µg/kg	5.00	2208565	10/10/22	AOAC 2007.01 & EN 15662 (mod) ^P			
Aflatoxin G2 [¶]	< LOQ		µg/kg	5.00	2208565	10/10/22	AOAC 2007.01 & EN 15662 (mod) ^P			
Ochratoxin A [¶]	< LOQ	20.0	µg/kg	5.00	2208565	10/10/22	AOAC 2007.01 & EN 15662 (mod) ^P	pass		
Total Aflatoxins	0.000	20.0	µg/kg	20.0		10/11/22	AOAC 2007.01 & EN 15662 (mod)	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

/25g = Per 25g

cfu/g = Colony forming units per gram

g = g

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

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

mg/1g = Milligram per 1g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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Hemp & Cannabis: Usable / Extract / Finished Product
Chain of Custody Record
 ORELAP ID: OR100028 ANAB ISO 17025 ID: AT-1508

JPSPRODUCTS 22-011877



JPS Products dba DBD Move Free

Company: CBD Move Free Contact: Bryan Foos Address: 1100 Bellevue Way NE Ste. 8A-92 City: Bellevue State: WA Zip Code: 98004 <input checked="" type="checkbox"/> Email Results: bryan@cbdmovefree.com <input checked="" type="checkbox"/> Ph: (509) 438-2505 Name: _____ Email: _____ Address: _____ City: _____ State: _____ Zip: _____ Ph: () - _____			Analysis Requested CANAM Pesticides (P2140) <input type="checkbox"/> CANAM solvents (H0024) <input type="checkbox"/> Mycotoxins (H0042) <input type="checkbox"/> Heavy Metals (H0013) <input type="checkbox"/> Micro (M700) Colorado Profile <input type="checkbox"/> Potency Basic (H0014) <input type="checkbox"/> Potency Expanded (H0010) <input type="checkbox"/>						PO Number: _____ Project ID: _____ Batch ID: _____ Sampled by: _____ Custom Reporting: _____ Source Material: <input type="checkbox"/> - Ind. Hemp product <input type="checkbox"/> - Rec. Cannabis Reporting Type: <input type="checkbox"/> - Compliance <input checked="" type="checkbox"/> - R&D Report to: <input type="checkbox"/> - METRC <input type="checkbox"/> - ODA <input type="checkbox"/> - USDA <input type="checkbox"/> - Other: Turnaround time (TAT - Business Days): <input checked="" type="checkbox"/> - SBD <input type="checkbox"/> - 3BD* <input type="checkbox"/> - 2BD* <small>*Check for availability</small>			
Lab ID	Client Sample Identification	Sample date	CANAM Pesticides (P2140)	CANAM solvents (H0024)	Mycotoxins (H0042)	Heavy Metals (H0013)	Micro (M700) Colorado Profile	Potency Basic (H0014)	Potency Expanded (H0010)	Material Type †	Weight (Units)	Comments/Metric ID
	Formulated for Her - 1250mg CBD & 250mg CBG	09/27/22	✓	✓	✓	✓	✓	✓	✓	T	2.65	Market of Choice Submission.
	350mg CBD	09/27/22	✓	✓	✓	✓	✓	✓	✓	T	2.65	Notify KO.
Signature - Relinquished By: <u>A Hediger</u> Date: <u>9/27/22</u> Time: <u>3:00</u>			Signature - Received By: <u>RBS</u> Date: <u>10/03</u> Time: <u>10:28</u>			Lab Use Only: <input checked="" type="checkbox"/> Shipped Via: <u>LPS</u> or <input type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>21.6</u> Sample in good condition: <input type="checkbox"/> Yes <input type="checkbox"/> No Payment: <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: Prelog storage:						

† - Material Type Codes: Plant Material (P) ; Isolate (I) ; Concentrate/Extract (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B) ; Vapor Product (V)
 Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms
 12423 NE Whitaker Way Portland, OR 97230 P: (503) 254-1794 | Fax: (503) 254-1452 info@columbiainlaboratories.com Page _____ of _____ www.columbiainlaboratories.com



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



Report Number: 22-011877/D002.R000
Report Date: 10/11/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/03/22 10:28

Revision: 1 Document ID: 7148
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2208422

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0335	0.034	%	97.3	80.0 - 120	Acceptable	
CBDV	2	0.0362	0.037	%	99.1	80.0 - 120	Acceptable	
CBE	2	0.0335	0.035	%	96.0	80.0 - 120	Acceptable	
CBDA	1	0.0302	0.033	%	90.1	90.0 - 110	Acceptable	
CBGA	1	0.0303	0.034	%	90.4	80.0 - 120	Acceptable	
CBG	1	0.0316	0.034	%	92.1	80.0 - 120	Acceptable	
CBD	1	0.0312	0.034	%	91.1	90.0 - 110	Acceptable	
THCV	2	0.0357	0.038	%	95.0	80.0 - 120	Acceptable	
d8THCV	2	0.0361	0.037	%	98.3	80.0 - 120	Acceptable	
THCVA	2	0.0327	0.034	%	97.4	80.0 - 120	Acceptable	
CBN	1	0.0311	0.034	%	92.3	90.0 - 110	Acceptable	
exo-THC	2	0.0329	0.034	%	96.3	80.0 - 120	Acceptable	
d9THC	1	0.0321	0.035	%	93.1	90.0 - 110	Acceptable	
d8THC	1	0.0324	0.033	%	96.9	90.0 - 110	Acceptable	
CBL	2	0.0313	0.033	%	95.3	80.0 - 120	Acceptable	
d10THC	1	0.0290	0.032	%	90.9	80.0 - 120	Acceptable	
CBG	2	0.0356	0.036	%	98.6	80.0 - 120	Acceptable	
THCA	1	0.0301	0.033	%	90.9	90.0 - 110	Acceptable	
CBCA	2	0.0347	0.035	%	98.6	80.0 - 120	Acceptable	
CBLA	2	0.0179	0.019	%	95.9	80.0 - 120	Acceptable	
CBT	2	0.0354	0.037	%	95.0	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBDV	<LOQ	0.003	%	< 0.003	Acceptable	
CBE	<LOQ	0.003	%	< 0.003	Acceptable	
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
CBD	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	<LOQ	0.003	%	< 0.003	Acceptable	
d9THC	<LOQ	0.003	%	< 0.003	Acceptable	
d8THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<LOQ	0.003	%	< 0.003	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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Received: 10/03/22 10:28

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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2208422						
Sample Duplicate		Sample ID: 22-011856-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0580	0.0591	0.003	%	1.84	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.456	0.469	0.003	%	2.92	< 20	Acceptable	
CBD	16.0	16.1	0.003	%	0.445	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.0116	0.0117	0.003	%	0.702	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.141	0.142	0.003	%	0.820	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:



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Revision: 1 Document ID: TBA

Laboratory Quality Control Results

Organic Acids				Batch ID: 2208471						
Method Blank				Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes	
Acetic Acid	<LOQ	<	250	483	522	µg/g	92.5	70 - 130		
Formic Acid	<LOQ	<	250	630	617	µg/g	102.2	70 - 130		

QC - Sample Duplicate				Sample ID: LCS					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes	
Acetic Acid	<LOQ	<LOQ	250	µg/g	0.0	< 20	Acceptable		
Formic Acid	<LOQ	<LOQ	250	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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Report Number: 22-011877/D002.R000
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Revision: 2 Document ID: 7087
 Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2208495					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		501	572	µg/g	87.6	60 - 120	
Isobutane	ND	< 200		602	731	µg/g	82.4	60 - 120	
Butane	ND	< 200		593	731	µg/g	81.1	60 - 120	
2,2-Dimethylpropane	ND	< 200		894	936	µg/g	95.5	60 - 120	
Methanol	ND	< 200		1800	1650	µg/g	109.1	60 - 120	
Ethylene Oxide	ND	< 30		53.3	56.2	µg/g	94.8	60 - 120	
2-Methylbutane	ND	< 200		1690	1650	µg/g	102.4	60 - 120	
Pentane	ND	< 200		1710	1650	µg/g	103.6	60 - 120	
Ethanol	ND	< 200		1720	1660	µg/g	103.6	70 - 130	
Ethyl Ether	ND	< 200		1650	1630	µg/g	101.2	60 - 120	
2,2-Dimethylbutane	ND	< 30		187	189	µg/g	98.9	60 - 120	
Acetone	ND	< 200		1760	1650	µg/g	106.7	60 - 120	
2-Propanol	ND	< 200		1730	1650	µg/g	104.8	60 - 120	
Ethyl Formate	ND	< 500		1370	1610	µg/g	85.1	70 - 130	
Acetonitrile	ND	< 100		535	504	µg/g	106.2	60 - 120	
Methyl Acetate	ND	< 500		1660	1630	µg/g	101.8	70 - 130	
2,3-Dimethylbutane	ND	< 30		191	174	µg/g	109.8	60 - 120	
Dichloromethane	ND	< 60		518	521	µg/g	99.4	60 - 120	
2-Methylpentane	ND	< 30		174	187	µg/g	93.0	60 - 120	
MTBE	ND	< 500		1520	1600	µg/g	95.0	70 - 130	
3-Methylpentane	ND	< 30		188	188	µg/g	100.0	60 - 120	
Hexane	ND	< 30		191	182	µg/g	104.9	60 - 120	
1-Propanol	ND	< 500		1660	1610	µg/g	103.1	70 - 130	
Methylethylketone	ND	< 500		1620	1600	µg/g	101.3	70 - 130	
Ethyl acetate	ND	< 200		1700	1630	µg/g	104.3	60 - 120	
2-Butanol	ND	< 200		1700	1630	µg/g	104.3	60 - 120	
Tetrahydrofuran	ND	< 100		509	506	µg/g	100.6	60 - 120	
Cyclohexane	ND	< 200		1650	1640	µg/g	100.6	60 - 120	
2-methyl-1-propanol	ND	< 500		1540	1620	µg/g	95.1	70 - 130	
Benzene	ND	< 1		4.81	4.93	µg/g	97.6	60 - 120	
Isopropyl Acetate	ND	< 200		1720	1640	µg/g	104.9	60 - 120	
Heptane	ND	< 200		1710	1630	µg/g	104.9	60 - 120	
1-Butanol	ND	< 500		1650	1600	µg/g	103.1	70 - 130	
Propyl Acetate	ND	< 500		1660	1620	µg/g	102.5	70 - 130	
1,4-Dioxane	ND	< 100		490	493	µg/g	99.4	60 - 120	
2-Ethoxyethanol	ND	< 30		183	171	µg/g	107.0	60 - 120	
Methylisobutylketone	ND	< 500		1640	1620	µg/g	101.2	70 - 130	
3-Methyl-1-butanol	ND	< 500		1670	1610	µg/g	103.7	70 - 130	
Ethylene Glycol	ND	< 200		452	494	µg/g	93.5	60 - 120	
Toluene	ND	< 100		493	506	µg/g	97.4	60 - 120	
Isobutyl Acetate	ND	< 500		1700	1620	µg/g	104.9	70 - 130	
1-Pentanol	ND	< 500		1750	1610	µg/g	108.7	70 - 130	
Butyl Acetate	ND	< 500		1770	1610	µg/g	109.9	70 - 130	
Ethylbenzene	ND	< 200		993	996	µg/g	99.7	60 - 120	
m,p-Xylene	ND	< 200		1010	1010	µg/g	100.0	60 - 120	
o-Xylene	ND	< 200		976	979	µg/g	99.7	60 - 120	
Cumene	ND	< 30		186	188	µg/g	98.9	60 - 120	
Anisole	ND	< 500		1510	1610	µg/g	93.8	70 - 130	
DMSO	ND	< 500		1490	1600	µg/g	93.1	70 - 130	
1,2-dimethoxyethane	ND	< 50		194	190	µg/g	102.1	70 - 130	
Triethylamine	ND	< 500		1590	1610	µg/g	98.8	70 - 130	
N,N-dimethylformamide	ND	< 150		505	496	µg/g	101.8	70 - 130	
N,N-dimethylacetamide	ND	< 150		502	483	µg/g	103.9	70 - 130	
Pyridine	ND	< 50		157	167	µg/g	94.0	70 - 130	
1,2-Dichloroethane	ND	< 1		1.03	1	µg/g	103.0	70 - 130	
Chloroform	ND	< 1		1.03	1	µg/g	103.0	70 - 130	
Trichloroethylene	ND	< 1		1.01	1	µg/g	101.0	70 - 130	
1,1-Dichloroethane	ND	< 1		1.03	1	µg/g	103.0	70 - 130	



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Report Number: 22-011877/D002.R000
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Legacy ID: CFL-E33Effective:

QC - Sample Duplicate			Sample ID: 22-011805-0001					
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	
Methyl ethyl ketone	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	
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



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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2208512						
Method Blank				Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes	
Sulfolane	ND	< 50		199	161	µg/g	123.6	70 - 130		

QC - Sample Duplicate				Sample ID: 22-011749-0006					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes	
Sulfolane	ND	ND	50	µg/g	0.0	< 20	Acceptable		

Abbreviations

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 RPD - Relative Percent Difference
 LOQ - Limit of Quantitation

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µg/g - Microgram per gram or ppm



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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.