Columbia LABORATORIES
A Tentamus Company

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

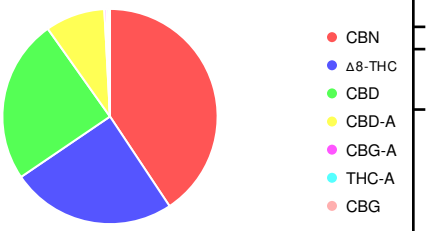
Report Number: 23-008476/D002.R000
Report Date: 07/31/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/18/23 13:57

Customer: The Hemp Collect
Product identity: OG Kush Knockout Badder
Client/Metrc ID: 200923199018
Laboratory ID: 23-008476-0001

Summary

Potency:

Analyte	Result (%)
CBN	32.4
Δ8-THC	19.8
CBD	19.6
CBD-A	7.14
CBG-A	0.277
THC-A	0.250
CBG	0.147



CBD-Total	25.9%
THC-Total	0.219%

(Reported in percent of total sample)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

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Customer: The Hemp Collect
825 NW 16th Ave
Portland Oregon 97209
United States of America (USA)

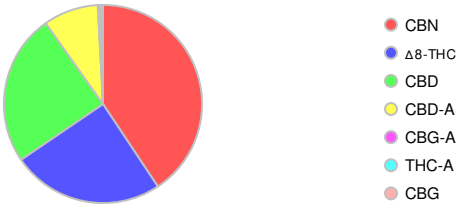
Product identity: OG Kush Knockout Badder
Client/Metrc ID: 200923199018
Sample Date:
Laboratory ID: 23-008476-0001
Evidence of Cooling: No
Temp: 19.2 °C
Relinquished by: Ramos

THE HEMP COLLECT

Sample Results

Potency **Method:** J AOAC 2015 V98-6 (mod)[b] **Units** % **Batch:** 2309322 **Analyze:** 7/20/23 8:38:00 PM

Analyte	As Received	Dry weight	LOQ	Notes
CBD	19.6		0.0692	
CBD-A	7.14		0.0692	
CBD-Total	25.9		0.130	
CBG	0.147		0.0692	
CBG-A	0.277		0.0692	
CBG-Total	0.390		0.129	
CBN	32.4		0.692	
Δ10-THC-9R	< LOQ		0.0692	
Δ10-THC-9S	< LOQ		0.0692	
Δ10-THC-Total	< LOQ		0.138	
Δ8-THC	19.8		0.0692	
Δ9-THC	< LOQ		0.0692	
THC-A	0.250		0.0692	
THC-Total	0.219		0.130	
Total Cannabinoids	79.6			



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Solvents **Method:** Residual Solvents by GC/MS^{b} **Units** µg/g **Batch** 2309278 **Analyze** 07/20/23 02:05 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	

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Pesticides

Method: AOAC 2007.01 & EN 15662 (mod)þ **Units** mg/kg **Batch** 2309342 **Analyze** 07/24/23 08:22 AM

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		Paclobutrazole¥	< 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	0.0792	2309307	07/20/23	AOAC 2013.06 (mod.)þ	pass	
Cadmium¥	< LOQ	0.200	mg/kg	0.0792	2309307	07/20/23	AOAC 2013.06 (mod.)þ	pass	
Lead¥	< LOQ	0.500	mg/kg	0.0792	2309307	07/20/23	AOAC 2013.06 (mod.)þ	pass	
Mercury¥	< LOQ	0.100	mg/kg	0.0396	2309307	07/20/23	AOAC 2013.06 (mod.)þ	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.

þ = ISO/IEC 17025:2017 accredited method.
¥ = TNI accredited analyte.

Units of Measure

µg/g = Microgram per gram
mg/kg = Milligram per kilogram = parts per million (ppm)
% = Percentage of sample
% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

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

Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2309278

Method Blank					Laboratory Control Sample							
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**			**Notes**
Propane	ND	<	200		560	584	µg/g	95.9	60	-	120	
Isobutane	ND	<	200		729	767	µg/g	95.0	60	-	120	
Butane	ND	<	200		725	782	µg/g	92.7	60	-	120	
2,2-Dimethylpropane	ND	<	200		895	939	µg/g	95.3	60	-	120	
Methanol	ND	<	200		1520	1640	µg/g	92.7	60	-	120	
Ethylene Oxide	ND	<	30		63.4	57.1	µg/g	111.0	60	-	120	
2-Methylbutane	ND	<	200		1390	1600	µg/g	86.9	60	-	120	
Pentane	ND	<	200		1410	1620	µg/g	87.0	60	-	120	
Ethanol	ND	<	200		1570	1610	µg/g	97.5	70	-	130	
Ethyl Ether	ND	<	200		1430	1610	µg/g	88.8	60	-	120	
2,2-Dimethylbutane	ND	<	30		151	168	µg/g	89.9	60	-	120	
Acetone	ND	<	200		1480	1620	µg/g	91.4	60	-	120	
2-Propanol	ND	<	200		1580	1600	µg/g	98.8	60	-	120	
Ethyl Formate	ND	<	500		1290	1600	µg/g	80.6	70	-	130	
Acetonitrile	ND	<	100		429	484	µg/g	88.6	60	-	120	
Methyl Acetate	ND	<	500		1440	1610	µg/g	89.4	70	-	130	
2,3-Dimethylbutane	ND	<	30		138	162	µg/g	85.2	60	-	120	
Dichloromethane	ND	<	60		434	483	µg/g	89.9	60	-	120	
2-Methylpentane	ND	<	30		153	174	µg/g	87.9	60	-	120	
MTBE	ND	<	500		1430	1610	µg/g	88.8	70	-	130	
3-Methylpentane	ND	<	30		158	168	µg/g	94.0	60	-	120	
Hexane	ND	<	30		147	168	µg/g	87.5	60	-	120	
1-Propanol	ND	<	500		1560	1600	µg/g	97.5	70	-	130	
Methylethylketone	ND	<	500		1440	1620	µg/g	88.9	70	-	130	
Ethyl acetate	ND	<	200		1480	1600	µg/g	92.5	60	-	120	
2-Butanol	ND	<	200		1590	1600	µg/g	99.4	60	-	120	
Tetrahydrofuran	ND	<	100		463	514	µg/g	90.1	60	-	120	
Cyclohexane	ND	<	200		1440	1600	µg/g	90.0	60	-	120	
2-methyl-1-propanol	ND	<	500		1640	1610	µg/g	101.9	70	-	130	
Benzene	ND	<	1		3.8	5.12	µg/g	74.2	60	-	120	
Isopropyl Acetate	ND	<	200		1490	1620	µg/g	92.0	60	-	120	
Heptane	ND	<	200		1440	1610	µg/g	89.4	60	-	120	
1-Butanol	ND	<	500		1630	1600	µg/g	101.9	70	-	130	
Propyl Acetate	ND	<	500		1440	1600	µg/g	90.0	70	-	130	
1,4-Dioxane	ND	<	100		445	493	µg/g	90.3	60	-	120	
2-Ethoxyethanol	ND	<	30		146	163	µg/g	89.6	60	-	120	
Methylisobutylketone	ND	<	500		1450	1600	µg/g	90.6	70	-	130	
3-Methyl-1-butanol	ND	<	500		1600	1610	µg/g	99.4	70	-	130	
Ethylene Glycol	ND	<	200		157	483	µg/g	32.5	60	-	120	Q6
Toluene	ND	<	100		433	493	µg/g	87.8	60	-	120	
Isobutyl Acetate	ND	<	500		1440	1600	µg/g	90.0	70	-	130	
1-Pentanol	ND	<	500		1670	1600	µg/g	104.4	70	-	130	
Butyl Acetate	ND	<	500		1430	1600	µg/g	89.4	70	-	130	
Ethylbenzene	ND	<	200		851	969	µg/g	87.8	60	-	120	
m,p-Xylene	ND	<	200		844	968	µg/g	87.2	60	-	120	
o-Xylene	ND	<	200		861	976	µg/g	88.2	60	-	120	
Cumene	ND	<	30		140	162	µg/g	86.4	60	-	120	
Anisole	ND	<	500		1370	1610	µg/g	85.1	70	-	130	
DMSO	ND	<	500		1670	1610	µg/g	103.7	70	-	130	
1,2-dimethoxyethane	ND	<	50		140	164	µg/g	85.4	70	-	130	
Triethylamine	ND	<	500		1360	1600	µg/g	85.0	70	-	130	
N,N-dimethylformamide	ND	<	150		450	484	µg/g	93.0	70	-	130	
N,N-dimethylacetamide	ND	<	150		452	489	µg/g	92.4	70	-	130	
Pyridine	ND	<	50		110	172	µg/g	64.0	70	-	130	Q6
Sulfolane	ND	<	50		104	163	µg/g	63.8	70	-	130	Q6
1,2-Dichloroethane	ND	<	1		1.08	1	µg/g	108.0	70	-	130	
Chloroform	ND	<	1		1.07	1	µg/g	107.0	70	-	130	
Trichloroethylene	ND	<	1		1.14	1	µg/g	114.0	70	-	130	
1,1-Dichloroethane	ND	<	1		0.99	1	µg/g	99.0	70	-	130	

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QC - Sample Duplicate **Sample ID: 23-008207-0001**

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

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Revision: 4 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2309322**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0740	0.0718	%	103	80.0 - 120	Acceptable	
CBDV	2	0.0736	0.0708	%	104	80.0 - 120	Acceptable	
CBE	2	0.0822	0.0805	%	102	80.0 - 120	Acceptable	
CBDA	1	0.0807	0.0750	%	108	90.0 - 110	Acceptable	
CBGA	1	0.0811	0.0753	%	108	80.0 - 120	Acceptable	
CBG	1	0.0806	0.0766	%	105	80.0 - 120	Acceptable	
CBD	1	0.0811	0.0779	%	104	90.0 - 110	Acceptable	
THCV	2	0.0515	0.0513	%	100	80.0 - 120	Acceptable	
d8THCV	2	0.0630	0.0627	%	100	80.0 - 120	Acceptable	
THCVA	2	0.0769	0.0715	%	108	80.0 - 120	Acceptable	
CBN	1	0.0826	0.0784	%	105	80.0 - 120	Acceptable	
exo-THC	2	0.0717	0.0718	%	99.9	80.0 - 120	Acceptable	
d9THC	1	0.0772	0.0759	%	102	90.0 - 110	Acceptable	
d8THC	1	0.0753	0.0738	%	102	90.0 - 110	Acceptable	
9S-d10THC	1	0.0793	0.0791	%	100	80.0 - 120	Acceptable	
CBL	2	0.0695	0.0718	%	96.7	80.0 - 120	Acceptable	
9R-d10THC	1	0.0756	0.0722	%	105	80.0 - 120	Acceptable	
CBC	2	0.0729	0.0736	%	99.1	80.0 - 120	Acceptable	
THCA	1	0.0771	0.0744	%	104	90.0 - 110	Acceptable	
CBCA	2	0.0765	0.0750	%	102	80.0 - 120	Acceptable	
CBLA	2	0.120	0.115	%	104	80.0 - 120	Acceptable	
d9THCP	2	0.0722	0.0746	%	96.8	80.0 - 120	Acceptable	
CBT	2	0.0650	0.0725	%	89.7	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0701	%	< 0.0701	Acceptable	
CBDV	<LOQ	0.0701	%	< 0.0701	Acceptable	
CBE	<LOQ	0.0701	%	< 0.0701	Acceptable	
CBDA	<LOQ	0.0701	%	< 0.0701	Acceptable	
CBGA	<LOQ	0.0701	%	< 0.0701	Acceptable	
CBG	<LOQ	0.0701	%	< 0.0701	Acceptable	
CBD	<LOQ	0.0701	%	< 0.0701	Acceptable	
THCV	<LOQ	0.0701	%	< 0.0701	Acceptable	
d8THCV	<LOQ	0.0701	%	< 0.0701	Acceptable	
THCVA	<LOQ	0.0701	%	< 0.0701	Acceptable	
CBN	<LOQ	0.0701	%	< 0.0701	Acceptable	
exo-THC	<LOQ	0.0701	%	< 0.0701	Acceptable	
d9THC	<LOQ	0.0701	%	< 0.0701	Acceptable	
d8THC	<LOQ	0.0701	%	< 0.0701	Acceptable	
9S-d10THC	<LOQ	0.0701	%	< 0.0701	Acceptable	
CBL	<LOQ	0.0701	%	< 0.0701	Acceptable	
9R-d10THC	<LOQ	0.0701	%	< 0.0701	Acceptable	
CBC	<LOQ	0.0701	%	< 0.0701	Acceptable	
THCA	<LOQ	0.0701	%	< 0.0701	Acceptable	
CBCA	<LOQ	0.0701	%	< 0.0701	Acceptable	
CBLA	<LOQ	0.0701	%	< 0.0701	Acceptable	
d9THCP	<LOQ	0.0701	%	< 0.0701	Acceptable	
CBT	<LOQ	0.0701	%	< 0.0701	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-008476/D002.R000
Report Date: 07/31/2023
ORELAP#: OR100028
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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2309322**

Sample Duplicate Sample ID: **23-008476-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	0.110	0.113	0.0700	%	2.64	< 20	Acceptable	
CBDV	0.171	0.185	0.0700	%	7.58	< 20	Acceptable	
CBE	0.447	0.450	0.0700	%	0.858	< 20	Acceptable	
CBDA	6.94	7.14	0.0700	%	2.86	< 20	Acceptable	
CBGA	0.275	0.277	0.0700	%	0.614	< 20	Acceptable	
CBG	0.141	0.147	0.0700	%	4.02	< 20	Acceptable	
CBD	19.1	19.6	0.0700	%	2.62	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
CBN	33.4	32.4	0.0700	%	3.31	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
d8THC	19.2	19.8	0.0700	%	2.93	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
CBC	0.462	0.479	0.0700	%	3.50	< 20	Acceptable	
THCA	0.242	0.250	0.0700	%	3.15	< 20	Acceptable	
CBCA	0.438	0.453	0.0700	%	3.17	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.0700	%	NA	< 20	Acceptable	
CBT	0.516	0.524	0.0700	%	1.52	< 20	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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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | **Units:** mg/Kg | **Batch ID:** 0

Method Blank				Laboratory Control Sample					
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**		**Notes**
Abamectin	0.000	< 0.250		0.847	1.000	84.7	50.0	150	
Acephate	0.066	< 0.200		0.832	0.800	104.0	60.0	120	
Acequinocyl	0.000	< 1.000		3.339	4.000	83.5	40.0	160	
Acetamiprid	0.000	< 0.100		0.378	0.400	94.6	60.0	120	
Aldicarb	0.000	< 0.200		0.746	0.800	93.3	60.0	120	
Azoxystrobin	0.005	< 0.100		0.381	0.400	95.2	60.0	120	
Bifenazate	0.000	< 0.100		0.372	0.400	93.1	60.0	120	
Bifenthrin	0.000	< 0.100		0.379	0.400	94.8	50.0	150	
Boscalid	0.000	< 0.200		0.722	0.800	90.3	60.0	120	
Carbaryl	0.000	< 0.100		0.382	0.400	95.6	60.0	120	
Carbofuran	0.000	< 0.100		0.382	0.400	95.5	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.388	0.400	97.1	60.0	120	
Chlorfenapyr	0.000	< 0.500		1.893	2.000	94.6	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.359	0.400	89.7	60.0	120	
Clofentezine	0.000	< 0.100		0.376	0.400	94.0	60.0	120	
Cyfluthrin	0.000	< 0.500		1.693	2.000	84.6	50.0	150	
Cypermethrin	0.000	< 0.500		1.837	2.000	91.9	50.0	150	
Daminozide	0.237	< 0.500		1.919	2.000	95.9	60.0	120	
Diazinon	0.000	< 0.100		0.372	0.400	93.1	60.0	120	
Dichlorvos	0.000	< 0.500		1.954	2.000	97.7	60.0	120	
Dimethoate	0.010	< 0.100		0.405	0.400	101.1	60.0	120	
Ethoprophos	0.003	< 0.100		0.368	0.400	92.0	60.0	120	
Etofenprox	0.008	< 0.200		0.711	0.800	88.9	50.0	150	
Etoxazole	0.000	< 0.100		0.374	0.400	93.5	60.0	120	
Fenoxycarb	0.000	< 0.100		0.389	0.400	97.3	60.0	120	
Fenpyroximate	0.005	< 0.200		0.748	0.800	93.5	60.0	120	
Fipronil	0.000	< 0.200		0.727	0.800	90.9	60.0	120	
Flonicamid	0.000	< 0.250		0.992	1.000	99.2	60.0	120	
Fludioxonil	0.000	< 0.200		0.778	0.800	97.3	50.0	150	
Hexythiazox	0.011	< 0.250		0.929	1.000	92.9	60.0	120	
Imazalil	0.000	< 0.100		0.395	0.400	98.7	60.0	120	
Imidacloprid	0.000	< 0.200		0.828	0.800	103.5	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.750	0.800	93.7	60.0	120	
Malathion	0.000	< 0.100		0.373	0.400	93.2	60.0	120	
Metalaxyl	0.000	< 0.100		0.382	0.400	95.5	60.0	120	
Methiocarb	0.000	< 0.100		0.382	0.400	95.6	60.0	120	
Methomyl	0.000	< 0.200		0.768	0.800	96.0	60.0	120	
MGK-264	0.000	< 0.100		0.358	0.400	89.5	50.0	150	
Myclobutanil	0.000	< 0.100		0.379	0.400	94.7	60.0	120	
Naled	0.000	< 0.250		0.901	1.000	90.1	50.0	150	
Oxamyl	0.000	< 0.500		1.784	2.000	89.2	60.0	120	
Paclobutrazole	0.000	< 0.200		0.753	0.800	94.1	60.0	120	
Parathion-Methyl	0.000	< 0.100		0.385	0.400	96.3	50.0	150	
Permethrin	0.000	< 0.100		0.381	0.400	95.3	50.0	150	
Phosmet	0.000	< 0.100		0.380	0.400	95.1	50.0	150	
Piperonyl butoxide	0.000	< 0.500		1.873	2.000	93.6	60.0	120	
Prallethrin	0.000	< 0.100		0.385	0.400	96.2	60.0	120	
Propiconazole	0.000	< 0.200		0.761	0.800	95.1	60.0	120	
Propoxur	0.000	< 0.100		0.377	0.400	94.3	60.0	120	
Pyrethrin (Summe)	0.003	< 0.100		0.467	0.488	95.7	60.0	120	
Pyridaben	0.001	< 0.100		0.371	0.400	92.8	50.0	150	
Spinosad	0.000	< 0.100		0.357	0.388	91.9	50.0	150	
Spiromesifen	0.000	< 0.100		0.379	0.400	94.8	60.0	120	
Spirotetramat	0.000	< 0.100		0.386	0.400	96.6	60.0	120	
Spiroxamine	0.017	< 0.200		0.744	0.800	92.9	60.0	120	
Tebuconazole	0.000	< 0.200		0.748	0.800	93.5	60.0	120	
Thiacloprid	0.000	< 0.100		0.367	0.400	91.9	60.0	120	
Thiamethoxam	0.000	< 0.100		0.385	0.400	96.3	60.0	120	
Trifloxystrobin	0.004	< 0.100		0.382	0.400	95.4	60.0	120	

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 — **Units:** mg/Kg — **Batch ID:** 0

Matrix Spike/Matrix Spike Duplicate Recoveries — **Sample ID:** 23-008476-0001

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.803	0.773	1.000	3.8%	< 30	80.3%	77.3%	50 - 150	
Acephate	0.055	0.785	0.780	0.800	0.7%	< 30	91.3%	90.6%	50 - 150	
Acequinocyl	0.000	3.320	3.728	4.000	11.6%	< 30	83.0%	93.2%	50 - 150	
Acetamiprid	0.000	0.357	0.355	0.400	0.4%	< 30	89.1%	88.8%	50 - 150	
Aldicarb	0.000	0.725	0.752	0.800	3.7%	< 30	90.6%	94.1%	50 - 150	
Azoxystrobin	0.005	0.323	0.329	0.400	2.0%	< 30	79.3%	80.9%	50 - 150	
Bifenazate	0.000	0.340	0.363	0.400	6.7%	< 30	84.9%	90.8%	50 - 150	
Bifenthrin	0.017	0.372	0.385	0.400	3.4%	< 30	88.8%	91.9%	50 - 150	
Boscalid	0.000	0.690	0.682	0.800	1.1%	< 30	86.2%	85.3%	50 - 150	
Carbaryl	0.000	0.322	0.318	0.400	1.3%	< 30	80.5%	79.5%	50 - 150	
Carbofuran	0.004	0.348	0.359	0.400	3.2%	< 30	86.1%	88.9%	50 - 150	
Chlorantraniliprole	0.000	0.365	0.373	0.400	2.2%	< 30	91.4%	93.4%	50 - 150	
Chlorfenapyr	0.000	1.024	1.012	2.000	1.2%	< 30	51.2%	50.6%	50 - 150	
Chlorpyrifos	0.012	0.197	0.199	0.400	1.1%	< 30	46.3%	46.8%	50 - 150	Q
Clofentezine	0.020	0.311	0.335	0.400	7.7%	< 30	72.8%	78.7%	50 - 150	
Cyfluthrin	0.000	1.016	1.192	2.000	15.9%	< 30	50.8%	59.6%	30 - 150	
Cypermethrin	0.000	1.190	1.212	2.000	1.8%	< 30	59.5%	60.6%	50 - 150	
Daminozide	0.224	2.058	2.185	2.000	6.7%	< 30	91.7%	98.1%	30 - 150	
Diazinon	0.000	0.245	0.271	0.400	10.0%	< 30	61.2%	67.6%	50 - 150	
Dichlorvos	0.000	1.597	1.677	2.000	4.9%	< 30	79.8%	83.8%	50 - 150	
Dimethoate	0.010	0.381	0.362	0.400	5.3%	< 30	92.8%	88.0%	50 - 150	
Ethoprophos	0.003	0.318	0.316	0.400	0.7%	< 30	78.8%	78.2%	50 - 150	
Etofenprox	0.000	0.540	0.558	0.800	3.2%	< 30	67.5%	69.7%	50 - 150	
Etoxazole	0.000	0.299	0.320	0.400	6.6%	< 30	74.8%	79.9%	50 - 150	
Fenoxycarb	0.000	0.333	0.361	0.400	8.0%	< 30	83.3%	90.3%	50 - 150	
Fenpyroximate	0.006	0.402	0.392	0.800	2.5%	< 30	49.5%	48.3%	50 - 150	Q
Fipronil	0.000	0.547	0.599	0.800	9.1%	< 30	68.3%	74.9%	50 - 150	
Flonicamid	0.000	1.002	0.917	1.000	8.8%	< 30	100.2%	91.7%	50 - 150	
Fludioxonil	0.000	0.863	0.826	0.800	4.5%	< 30	107.9%	103.2%	50 - 150	
Hexythiazox	0.010	0.728	0.789	1.000	8.2%	< 30	71.8%	77.9%	50 - 150	
Imazalil	0.014	0.331	0.359	0.400	8.4%	< 30	79.4%	86.4%	50 - 150	
Imidacloprid	0.029	0.766	0.726	0.800	5.5%	< 30	92.1%	87.2%	50 - 150	
Kresoxim-methyl	0.000	0.608	0.644	0.800	5.7%	< 30	76.0%	80.5%	50 - 150	
Malathion	0.000	0.313	0.338	0.400	7.7%	< 30	78.3%	84.5%	50 - 150	
Metalaxyl	0.000	0.332	0.350	0.400	5.4%	< 30	83.0%	87.6%	50 - 150	
Methiocarb	0.000	0.336	0.338	0.400	0.6%	< 30	84.0%	84.5%	50 - 150	
Methomyl	0.000	0.707	0.691	0.800	2.3%	< 30	88.4%	86.3%	50 - 150	
MGK-264	0.000	0.252	0.290	0.400	14.0%	< 30	63.0%	72.5%	50 - 150	
Myclobutanil	0.024	0.275	0.293	0.400	7.0%	< 30	62.5%	67.1%	50 - 150	
Naled	0.000	0.771	0.772	1.000	0.1%	< 30	77.1%	77.2%	50 - 150	
Oxamyl	0.000	1.989	1.686	2.000	16.5%	< 30	99.4%	84.3%	50 - 150	
Paclobutrazole	0.000	0.628	0.676	0.800	7.4%	< 30	78.5%	84.5%	50 - 150	
Parathion-Methyl	0.000	0.174	0.215	0.400	20.9%	< 30	43.6%	53.8%	30 - 150	
Permethrin	0.003	0.360	0.347	0.400	3.9%	< 30	89.3%	85.9%	50 - 150	
Phosmet	0.000	0.351	0.355	0.400	1.1%	< 30	87.8%	88.8%	50 - 150	
Piperonyl butoxide	0.000	1.287	1.269	2.000	1.4%	< 30	64.3%	63.5%	50 - 150	
Prallethrin	0.043	0.434	0.477	0.400	10.4%	< 30	97.9%	108.6%	50 - 150	
Propiconazole	0.094	0.552	0.600	0.800	10.1%	< 30	57.2%	63.3%	50 - 150	
Propoxur	0.000	0.333	0.342	0.400	2.5%	< 30	83.3%	85.4%	50 - 150	
Pyrethrin (Summe)	0.036	0.505	0.552	0.488	9.6%	< 30	96.1%	105.8%	50 - 150	
Pyridaben	0.001	0.174	0.177	0.400	1.3%	< 30	43.4%	44.0%	50 - 150	Q
Spinosad	0.000	0.261	0.278	0.388	6.2%	< 30	67.4%	71.7%	50 - 150	
Spiromesifen	0.000	0.172	0.176	0.400	2.1%	< 30	43.0%	43.9%	50 - 150	Q
Spirotetramat	0.000	0.372	0.378	0.400	1.4%	< 30	93.1%	94.4%	50 - 150	
Spiroxamine	0.000	0.704	0.751	0.800	6.5%	< 30	88.0%	93.9%	50 - 150	
Tebuconazole	0.000	0.601	0.655	0.800	8.7%	< 30	75.1%	81.9%	50 - 150	
Thiacloprid	0.000	0.355	0.363	0.400	2.3%	< 30	88.7%	90.7%	50 - 150	
Thiamethoxam	0.000	0.377	0.318	0.400	16.8%	< 30	94.2%	79.6%	50 - 150	
Trifloxystrobin	0.005	0.193	0.197	0.400	2.2%	< 30	46.9%	48.0%	50 - 150	Q

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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	Quantitaion 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.