



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



Report Number: 23-010940/D003.R000
Report Date: 09/21/2023
ORELAP#: OR100028
Purchase Order:
Received: 09/14/23 11:50

Customer: Zero Point Extraction
Product identity: CBG DISTILLATE DB30528
Client/Metric ID: .
Laboratory ID: 23-010940-0001

Summary

Potency:

Analyte	Result (%)		
CBG	89.4	<ul style="list-style-type: none"> ● CBG ● CBT ● 9-THC ● CBL ● CBN 	THC-Total 0.294%
CBT	2.51		CBD-Total <LOQ
Δ9-THC	0.294		(Reported in percent of total sample)
CBL	0.171		
CBN	0.160		

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: Zero Point Extraction
 2615 SW CESSNA DR
 Prineville Oregon 97754
 United States of America (USA)

Product identity: CBG DISTILLATE DB30528

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-010940-0001

Evidence of Cooling: No

Temp: 30.8 °C

Relinquished by: client

Sample Results

Potency **Method:** J AOAC 2015 V98-6 (mod)^P **Units %** **Batch:** 2310997 **Analyze:** 9/15/23 8:20:00 PM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0749	
CBC-A	< LOQ		0.0749	
CBC-Total	< LOQ		0.141	
CBD	< LOQ		0.0749	
CBD-A	< LOQ		0.0749	
CBD-Total	< LOQ		0.141	
CBDV	< LOQ		0.0749	
CBDV-A	< LOQ		0.0749	
CBDV-Total	< LOQ		0.140	
CBE	< LOQ		0.0749	
CBG	89.4		0.749	
CBG-A	< LOQ		0.0749	
CBG-Total	89.4		0.813	
CBL	0.171		0.0749	
CBL-A	< LOQ		0.0749	
CBL-Total	0.171		0.141	
CBN	0.160		0.0749	
CBT	2.51		0.0749	
Δ10-THC-9R	< LOQ		0.0749	
Δ10-THC-9S	< LOQ		0.0749	
Δ10-THC-Total	< LOQ		0.150	
Δ8-THC	< LOQ		0.0749	
Δ8-THCV	< LOQ		0.0749	
Δ9-THC	0.294		0.0749	
delta-9-THCP	< LOQ		0.0749	
THC-A	< LOQ		0.0749	
THC-Total	0.294		0.141	
THCV	< LOQ		0.0749	
THCV-A	< LOQ		0.0749	
THCV-Total	< LOQ		0.140	
Total Cannabinoids	92.5			





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Solvents		Method: Residual Solvents by GC/MS ^b				Units µg/g	Batch 2311027	Analyze 09/19/23 09:22 AM			
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) ^b											
Units mg/kg Batch 2311039 Analyze 09/19/23 03:41 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	0.0868	2311096	09/18/23	AOAC 2013.06 (mod.) ^b	pass		
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0868	2311096	09/18/23	AOAC 2013.06 (mod.) ^b	pass		
Lead [‡]	< LOQ	0.500	mg/kg	0.0868	2311096	09/18/23	AOAC 2013.06 (mod.) ^b	pass		
Mercury [‡]	< LOQ	0.100	mg/kg	0.0434	2311096	09/18/23	AOAC 2013.06 (mod.) ^b	pass		



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Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B2 [‡]	< LOQ		µg/kg	5.00	2311043	09/19/23 AOAC 2007.01 & EN 15662 (mod) [‡]		
Aflatoxin B1 [‡]	< LOQ		µg/kg	5.00	2311043	09/19/23 AOAC 2007.01 & EN 15662 (mod) [‡]		
Aflatoxin G1 [‡]	< LOQ		µg/kg	5.00	2311043	09/19/23 AOAC 2007.01 & EN 15662 (mod) [‡]		
Aflatoxin G2 [‡]	< LOQ		µg/kg	5.00	2311043	09/19/23 AOAC 2007.01 & EN 15662 (mod) [‡]		
Ochratoxin A [‡]	< LOQ	20.0	µg/kg	5.00	2311043	09/19/23 AOAC 2007.01 & EN 15662 (mod) [‡]	pass	
Total Aflatoxins [‡]	0.000	20.0	µg/kg	20.0		09/20/23 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

µg/g = Microgram per gram

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

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2310997

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0776	0.0713	%	109	80.0	- 120	Acceptable	
CBDV	2	0.0785	0.0722	%	109	80.0	- 120	Acceptable	
CBE	2	0.0820	0.0760	%	108	80.0	- 120	Acceptable	
CBDA	1	0.0900	0.0837	%	108	90.0	- 110	Acceptable	
CBGA	1	0.0919	0.0849	%	108	80.0	- 120	Acceptable	
CBG	1	0.0975	0.0906	%	108	80.0	- 120	Acceptable	
CBD	1	0.0940	0.0877	%	107	90.0	- 110	Acceptable	
THCV	2	0.0487	0.0461	%	106	80.0	- 120	Acceptable	
d8THCV	2	0.0668	0.0636	%	105	80.0	- 120	Acceptable	
THCVA	2	0.0834	0.0709	%	118	80.0	- 120	Acceptable	
CBN	1	0.0910	0.0854	%	107	80.0	- 120	Acceptable	
exo-THC	2	0.0727	0.0698	%	104	80.0	- 120	Acceptable	
d9THC	1	0.0962	0.0888	%	108	90.0	- 110	Acceptable	
d8THC	1	0.0939	0.0903	%	104	90.0	- 110	Acceptable	
9S-d10THC	1	0.0927	0.0883	%	105	80.0	- 120	Acceptable	
CBL	2	0.0754	0.0718	%	105	80.0	- 120	Acceptable	
9S-HHC	3	0.231	0.230	%	101	80.0	- 120	Acceptable	
9R-d10THC	1	0.0294	0.0286	%	103	80.0	- 120	Acceptable	
CBC	2	0.0800	0.0772	%	104	80.0	- 120	Acceptable	
9R-HHC	3	0.200	0.195	%	102	80.0	- 120	Acceptable	
THCA	1	0.0895	0.0851	%	105	90.0	- 110	Acceptable	
CBCA	2	0.0782	0.0737	%	106	80.0	- 120	Acceptable	
CBLA	2	0.162	0.149	%	109	80.0	- 120	Acceptable	
d9THCP	2	0.0742	0.0730	%	102	80.0	- 120	Acceptable	
d8THCO	3	0.0737	0.0758	%	97.3	80.0	- 120	Acceptable	
CBT	2	0.0695	0.0711	%	97.7	80.0	- 120	Acceptable	
d9THCO	3	0.0714	0.0741	%	96.4	80.0	- 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00722	%	< 0.00722	Acceptable	
CBDV	<LOQ	0.00722	%	< 0.00722	Acceptable	
CBE	<LOQ	0.00722	%	< 0.00722	Acceptable	
CBDA	<LOQ	0.00722	%	< 0.00722	Acceptable	
CBGA	<LOQ	0.00722	%	< 0.00722	Acceptable	
CBG	<LOQ	0.00722	%	< 0.00722	Acceptable	
CBD	<LOQ	0.00722	%	< 0.00722	Acceptable	
THCV	<LOQ	0.00722	%	< 0.00722	Acceptable	
d8THCV	<LOQ	0.00722	%	< 0.00722	Acceptable	
THCVA	<LOQ	0.00722	%	< 0.00722	Acceptable	
CBN	<LOQ	0.00722	%	< 0.00722	Acceptable	
exo-THC	<LOQ	0.00722	%	< 0.00722	Acceptable	
d9THC	<LOQ	0.00722	%	< 0.00722	Acceptable	
d8THC	<LOQ	0.00722	%	< 0.00722	Acceptable	
9S-d10THC	<LOQ	0.00722	%	< 0.00722	Acceptable	
CBL	<LOQ	0.00722	%	< 0.00722	Acceptable	
9S-HHC	<LOQ	0.00722	%	< 0.00722	Acceptable	
9R-d10THC	<LOQ	0.00722	%	< 0.00722	Acceptable	
CBC	<LOQ	0.00722	%	< 0.00722	Acceptable	
9R-HHC	<LOQ	0.00722	%	< 0.00722	Acceptable	
THCA	<LOQ	0.00722	%	< 0.00722	Acceptable	
CBCA	<LOQ	0.00722	%	< 0.00722	Acceptable	
CBLA	<LOQ	0.00722	%	< 0.00722	Acceptable	
d9THCP	<LOQ	0.00722	%	< 0.00722	Acceptable	
d8THCO	<LOQ	0.00722	%	< 0.00722	Acceptable	
CBT	<LOQ	0.00722	%	< 0.00722	Acceptable	
d9THCO	<LOQ	0.00722	%	< 0.00722	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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 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2310997						
Sample Duplicate		Sample ID: 23-010939-0002						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
CBDV	0.0830	0.0845	0.00721	%	1.75	< 20	Acceptable	
CBE	0.0924	0.0959	0.00721	%	3.69	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
CBG	29.6	29.4	0.00721	%	0.550	< 20	Acceptable	
CBD	12.6	12.6	0.00721	%	0.0587	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
CBN	0.142	0.144	0.00721	%	1.03	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
d9THC	0.850	0.849	0.00721	%	0.143	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
CBL	0.106	0.123	0.00721	%	14.8	< 20	Acceptable	
9S-HHC	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
CBc	2.15	2.15	0.00721	%	0.220	< 20	Acceptable	
9R-HHC	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
d8THCO	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	
CBT	0.957	0.944	0.00721	%	1.37	< 20	Acceptable	
d9THCO	<LOQ	<LOQ	0.00721	%	NA	< 20	Acceptable	

Abbreviations

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 RPD - Relative Percent Difference
 LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2311027					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		477	584	µg/g	81.7	60 - 120	
Isobutane	ND	< 200		584	767	µg/g	76.1	60 - 120	
Butane	ND	< 200		635	782	µg/g	81.2	60 - 120	
2,2-Dimethylpropane	ND	< 200		800	939	µg/g	85.2	60 - 120	
Methanol	ND	< 200		1500	1670	µg/g	89.8	60 - 120	
Ethylene Oxide	ND	< 30		50.7	57.1	µg/g	88.8	60 - 120	
2-Methylbutane	ND	< 200		1410	1680	µg/g	83.9	60 - 120	
Pentane	ND	< 200		1410	1670	µg/g	84.4	60 - 120	
Ethanol	ND	< 200		1520	1660	µg/g	91.6	70 - 130	
Ethyl Ether	ND	< 200		1420	1670	µg/g	85.0	60 - 120	
2,2-Dimethylbutane	ND	< 30		158	189	µg/g	83.6	60 - 120	
Acetone	ND	< 200		1460	1670	µg/g	87.4	60 - 120	
2-Propanol	ND	< 200		1420	1630	µg/g	87.1	60 - 120	
Ethyl Formate	ND	< 500		1150	1600	µg/g	71.9	70 - 130	
Acetonitrile	ND	< 100		419	492	µg/g	85.2	60 - 120	
Methyl Acetate	ND	< 500		1470	1600	µg/g	91.9	70 - 130	
2,3-Dimethylbutane	ND	< 30		159	180	µg/g	88.3	60 - 120	
Dichloromethane	ND	< 60		433	488	µg/g	88.7	60 - 120	
2-Methylpentane	ND	< 30		142	182	µg/g	78.0	60 - 120	
MTBE	ND	< 500		1480	1610	µg/g	91.9	70 - 130	
3-Methylpentane	ND	< 30		150	177	µg/g	84.7	60 - 120	
Hexane	ND	< 30		157	177	µg/g	88.7	60 - 120	
1-Propanol	ND	< 500		1410	1600	µg/g	88.1	70 - 130	
Methylethylketone	ND	< 500		1440	1610	µg/g	89.4	70 - 130	
Ethyl acetate	ND	< 200		1400	1630	µg/g	85.9	60 - 120	
2-Butanol	ND	< 200		1410	1630	µg/g	86.5	60 - 120	
Tetrahydrofuran	ND	< 100		433	488	µg/g	88.7	60 - 120	
Cyclohexane	ND	< 200		1370	1610	µg/g	85.1	60 - 120	
2-methyl-1-propanol	ND	< 500		1340	1610	µg/g	83.2	70 - 130	
Benzene	ND	< 1		4.26	4.79	µg/g	88.9	60 - 120	
Isopropyl Acetate	ND	< 200		1410	1650	µg/g	85.5	60 - 120	
Heptane	ND	< 200		1360	1630	µg/g	83.4	60 - 120	
1-Butanol	ND	< 500		1260	1600	µg/g	78.8	70 - 130	
Propyl Acetate	ND	< 500		1370	1600	µg/g	85.6	70 - 130	
1,4-Dioxane	ND	< 100		430	523	µg/g	82.2	60 - 120	
2-Ethoxyethanol	ND	< 30		148	179	µg/g	82.7	60 - 120	
Methylisobutylketone	ND	< 500		1200	1600	µg/g	75.0	70 - 130	
3-Methyl-1-butanol	ND	< 500		1250	1600	µg/g	78.1	70 - 130	
Ethylene Glycol	ND	< 200		280	506	µg/g	55.3	60 - 120	Q6
Toluene	ND	< 100		406	496	µg/g	81.9	60 - 120	
Isobutyl Acetate	ND	< 500		1380	1610	µg/g	85.7	70 - 130	
1-Pentanol	ND	< 500		1400	1600	µg/g	87.5	70 - 130	
Butyl Acetate	ND	< 500		1310	1610	µg/g	81.4	70 - 130	
Ethylbenzene	ND	< 200		754	978	µg/g	77.1	60 - 120	
m,p-Xylene	ND	< 200		765	994	µg/g	77.0	60 - 120	
o-Xylene	ND	< 200		735	982	µg/g	74.8	60 - 120	
Cumene	ND	< 30		117	171	µg/g	68.4	60 - 120	
Anisole	ND	< 500		1170	1600	µg/g	73.1	70 - 130	
DMSO	ND	< 500		1130	1620	µg/g	69.8	70 - 130	Q6
1,2-dimethoxyethane	ND	< 50		158	185	µg/g	84.9	70 - 130	
Triethylamine	ND	< 500		1390	1600	µg/g	86.9	70 - 130	
N,N-dimethylformamide	ND	< 150		398	480	µg/g	82.9	70 - 130	
N,N-dimethylacetamide	ND	< 150		328	483	µg/g	67.9	70 - 130	Q6
Pyridine	ND	< 50		138	168	µg/g	82.1	70 - 130	
Sulfolane	ND	< 50		92	161	µg/g	57.1	70 - 130	Q6
1,2-Dichloroethane	ND	< 1		0.889	1	µg/g	88.9	70 - 130	
Chloroform	ND	< 1		0.904	1	µg/g	90.4	70 - 130	
Trichloroethylene	ND	< 1		0.83	1	µg/g	83.0	70 - 130	
1,1-Dichloroethane	ND	< 1		0.916	1	µg/g	91.6	70 - 130	



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



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QC - Sample Duplicate		Sample ID: 23-010902-0004						
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	256	249	200	µg/g	2.8	< 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	
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
Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

µg/g- Microgram per gram or ppm



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



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 2311039			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		1.016	1.000	101.6	50.0	150
Accephate	0.000	< 0.200		0.930	0.800	116.2	60.0	120
Acequinocyl	0.000	< 1.000		3.292	4.000	82.3	40.0	160
Acetamiprid	0.000	< 0.100		0.407	0.400	101.6	60.0	120
Aldicarb	0.000	< 0.200		0.800	0.800	100.0	60.0	120
Azoxystrobin	0.000	< 0.100		0.392	0.400	98.0	60.0	120
Bifenazate	0.000	< 0.100		0.462	0.400	115.6	60.0	120
Bifenthrin	0.000	< 0.100		0.388	0.400	97.0	50.0	150
Boscalid	0.000	< 0.200		0.817	0.800	102.2	60.0	120
Carbaryl	0.000	< 0.100		0.384	0.400	96.0	60.0	120
Carbofuran	0.000	< 0.100		0.400	0.400	99.9	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.403	0.400	100.8	60.0	120
Chlorfenapyr	0.000	< 0.500		1.987	2.000	99.4	60.0	120
Chlorpyrifos	0.009	< 0.100		0.364	0.400	91.1	60.0	120
Clofentezine	0.000	< 0.100		0.409	0.400	102.2	60.0	120
Cyfluthrin	0.000	< 0.500		2.209	2.000	110.5	50.0	150
Cypermethrin	0.000	< 0.500		2.011	2.000	100.5	50.0	150
Daminozide	0.120	< 0.500		2.030	2.000	101.5	60.0	120
Diazinon	0.000	< 0.100		0.422	0.400	105.6	60.0	120
Dichlorvos	0.000	< 0.500		2.034	2.000	101.7	60.0	120
Dimethoate	0.000	< 0.100		0.413	0.400	103.1	60.0	120
Ethoprophos	0.000	< 0.100		0.386	0.400	96.5	60.0	120
Etofenprox	0.000	< 0.200		0.787	0.800	98.4	50.0	150
Etoxazole	0.000	< 0.100		0.372	0.400	93.1	60.0	120
Fenoxycarb	0.000	< 0.100		0.420	0.400	105.0	60.0	120
Fenpyroximate	0.000	< 0.200		0.826	0.800	103.2	60.0	120
Fipronil	0.000	< 0.200		0.883	0.800	110.4	60.0	120
Flonicamid	0.000	< 0.250		1.032	1.000	103.2	60.0	120
Fludioxonil	0.000	< 0.200		0.798	0.800	99.7	50.0	150
Hexythiazox	0.000	< 0.250		0.997	1.000	99.7	60.0	120
Imazalil	0.000	< 0.100		0.398	0.400	99.6	60.0	120
Imidacloprid	0.000	< 0.200		0.826	0.800	103.3	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.783	0.800	97.8	60.0	120
Malathion	0.000	< 0.100		0.417	0.400	104.3	60.0	120
Metalaxyl	0.000	< 0.100		0.394	0.400	98.5	60.0	120
Methiocarb	0.000	< 0.100		0.408	0.400	102.0	60.0	120
Methomyl	0.000	< 0.200		0.793	0.800	99.2	60.0	120
MGK-264	0.000	< 0.100		0.438	0.400	109.6	50.0	150
Myclobutanil	0.000	< 0.100		0.399	0.400	99.7	60.0	120
Naled	0.000	< 0.250		0.962	1.000	96.2	50.0	150
Oxamyl	0.000	< 0.500		2.090	2.000	104.5	60.0	120
Paclobutrazole	0.000	< 0.200		0.831	0.800	103.9	60.0	120
Parathion-Methyl	0.000	< 0.100		0.352	0.400	88.0	50.0	150
Permethrin	0.001	< 0.100		0.418	0.400	104.5	50.0	150
Phosmet	0.000	< 0.100		0.403	0.400	100.8	50.0	150
Piperonyl butoxide	0.000	< 0.500		2.138	2.000	106.9	60.0	120
Prallethrin	0.000	< 0.100		0.452	0.400	113.0	60.0	120
Propiconazole	0.000	< 0.200		0.805	0.800	100.6	60.0	120
Propoxur	0.000	< 0.100		0.392	0.400	97.9	60.0	120
Pyrethrin (Summe)	0.000	< 0.100		0.486	0.488	99.6	60.0	120
Pyridaben	0.000	< 0.100		0.390	0.400	97.5	50.0	150
Spinosad	0.000	< 0.100		0.377	0.388	97.2	50.0	150
Spiromesifen	0.000	< 0.100		0.390	0.400	97.6	60.0	120
Spirotetramat	0.000	< 0.100		0.391	0.400	97.8	60.0	120
Spiroxamine	0.000	< 0.200		0.795	0.800	99.4	60.0	120
Tebuconazole	0.000	< 0.200		0.801	0.800	100.1	60.0	120
Thiacloprid	0.000	< 0.100		0.413	0.400	103.3	60.0	120
Thiamethoxam	0.000	< 0.100		0.416	0.400	104.1	60.0	120
Trifloxystrobin	0.000	< 0.100		0.396	0.400	98.9	60.0	120



12423 NE Whitaker Way
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503-254-1794



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg				Batch ID: 2311039				
Matrix Spike/Matrix Spike Duplicate Recoveries					Sample ID: 23-010940-0001					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.766	0.828	1.000	7.8%	< 30	76.6%	82.8%	50 - 150	
Acephate	0.000	0.884	0.963	0.800	8.6%	< 30	110.5%	120.4%	50 - 150	
Acequinocyl	0.000	3.249	4.086	4.000	22.8%	< 30	81.2%	102.1%	50 - 150	
Acetamiprid	0.000	0.397	0.427	0.400	7.2%	< 30	99.2%	106.6%	50 - 150	
Aldicarb	0.000	0.776	0.860	0.800	10.2%	< 30	97.0%	107.5%	50 - 150	
Azoxystrobin	0.000	0.337	0.369	0.400	9.1%	< 30	84.3%	92.4%	50 - 150	
Bifenazate	0.000	0.458	0.481	0.400	5.0%	< 30	114.4%	120.3%	50 - 150	
Bifenthrin	0.000	0.107	0.122	0.400	13.3%	< 30	26.7%	30.5%	50 - 150	Q
Boscalid	0.000	0.743	0.864	0.800	15.1%	< 30	92.9%	108.1%	50 - 150	
Carbaryl	0.000	0.359	0.405	0.400	12.0%	< 30	89.9%	101.4%	50 - 150	
Carbofuran	0.000	0.390	0.408	0.400	4.6%	< 30	97.4%	102.0%	50 - 150	
Chlorantraniliprole	0.000	0.344	0.383	0.400	10.8%	< 30	86.1%	95.8%	50 - 150	
Chlorfenapyr	0.000	1.571	2.062	2.000	27.1%	< 30	78.5%	103.1%	50 - 150	
Chlorpyrifos	0.000	0.300	0.335	0.400	10.9%	< 30	75.1%	83.8%	50 - 150	
Clofentezine	0.000	0.256	0.299	0.400	15.4%	< 30	64.0%	74.7%	50 - 150	
Cyfluthrin	0.000	1.712	1.853	2.000	8.0%	< 30	85.6%	92.7%	30 - 150	
Cypermethrin	0.000	1.957	2.137	2.000	8.8%	< 30	97.9%	106.8%	50 - 150	
Daminozide	0.086	2.244	2.502	2.000	11.3%	< 30	107.9%	120.8%	30 - 150	
Diazinon	0.000	0.362	0.383	0.400	5.7%	< 30	90.4%	95.8%	50 - 150	
Dichlorvos	0.000	2.013	2.086	2.000	3.6%	< 30	100.7%	104.3%	50 - 150	
Dimethoate	0.000	0.399	0.424	0.400	6.0%	< 30	99.8%	106.0%	50 - 150	
Ethoprophos	0.000	0.354	0.380	0.400	7.2%	< 30	88.5%	95.1%	50 - 150	
Etofenprox	0.000	0.670	0.736	0.800	9.4%	< 30	83.7%	91.9%	50 - 150	
Etoxazole	0.000	0.320	0.366	0.400	13.4%	< 30	80.0%	91.5%	50 - 150	
Fenoxycarb	0.000	0.380	0.425	0.400	11.4%	< 30	94.9%	106.4%	50 - 150	
Fenpyroximate	0.000	0.627	0.673	0.800	7.1%	< 30	78.4%	84.2%	50 - 150	
Fipronil	0.000	0.681	0.773	0.800	12.7%	< 30	85.1%	96.6%	50 - 150	
Flonicamid	0.000	0.967	1.055	1.000	8.7%	< 30	96.7%	105.5%	50 - 150	
Fludioxonil	0.000	0.827	0.875	0.800	5.6%	< 30	103.3%	109.3%	50 - 150	
Hexythiazox	0.000	0.212	0.255	1.000	18.2%	< 30	21.2%	25.5%	50 - 150	Q
Imazalil	0.000	0.381	0.411	0.400	7.5%	< 30	95.2%	102.6%	50 - 150	
Imidacloprid	0.000	0.787	0.884	0.800	11.6%	< 30	98.4%	110.5%	50 - 150	
Kresoxim-methyl	0.000	0.699	0.771	0.800	9.8%	< 30	87.4%	96.4%	50 - 150	
Malathion	0.000	0.378	0.421	0.400	10.7%	< 30	94.5%	105.2%	50 - 150	
Metalaxyl	0.000	0.361	0.391	0.400	8.0%	< 30	90.2%	97.7%	50 - 150	
Methiocarb	0.000	0.361	0.366	0.400	1.4%	< 30	90.2%	91.5%	50 - 150	
Methomyl	0.000	0.815	0.815	0.800	0.0%	< 30	101.9%	101.9%	50 - 150	
MGK-264	0.000	0.326	0.399	0.400	20.0%	< 30	81.5%	99.7%	50 - 150	
Myclobutanil	0.000	0.365	0.399	0.400	8.8%	< 30	91.3%	99.7%	50 - 150	
Naled	0.000	0.891	1.001	1.000	11.6%	< 30	89.1%	100.1%	50 - 150	
Oxamyl	0.000	2.081	2.095	2.000	0.7%	< 30	104.0%	104.8%	50 - 150	
Paclobutrazole	0.000	0.710	0.770	0.800	8.1%	< 30	88.8%	96.3%	50 - 150	
Parathion-Methyl	0.000	0.383	0.447	0.400	15.5%	< 30	95.6%	111.8%	30 - 150	
Permethrin	0.000	0.419	0.451	0.400	7.5%	< 30	104.7%	112.9%	50 - 150	
Phosmet	0.000	0.345	0.383	0.400	10.5%	< 30	86.2%	95.8%	50 - 150	
Piperonyl butoxide	0.000	1.838	2.036	2.000	10.2%	< 30	91.9%	101.8%	50 - 150	
Prallethrin	0.000	0.325	0.350	0.400	7.5%	< 30	81.3%	87.6%	50 - 150	
Propiconazole	0.000	0.749	0.801	0.800	6.6%	< 30	93.7%	100.1%	50 - 150	
Propoxur	0.000	0.378	0.407	0.400	7.3%	< 30	94.6%	101.8%	50 - 150	
Pyrethrin (Summe)	0.000	0.535	0.554	0.488	3.4%	< 30	109.7%	113.5%	50 - 150	
Pyridaben	0.000	0.373	0.400	0.400	7.1%	< 30	93.2%	100.1%	50 - 150	
Spinosad	0.000	0.335	0.355	0.388	5.9%	< 30	86.2%	91.4%	50 - 150	
Spiromesfen	0.005	0.307	0.348	0.400	12.7%	< 30	75.4%	85.6%	50 - 150	
Spirotetramat	0.000	0.371	0.401	0.400	7.9%	< 30	92.8%	100.4%	50 - 150	
Spiroxamine	0.000	0.762	0.818	0.800	7.1%	< 30	95.2%	102.2%	50 - 150	
Tebuconazole	0.000	0.765	0.783	0.800	2.4%	< 30	95.6%	97.9%	50 - 150	
Thiacloprid	0.000	0.404	0.419	0.400	3.9%	< 30	100.9%	104.9%	50 - 150	
Thiamethoxam	0.000	0.399	0.433	0.400	8.1%	< 30	99.9%	108.3%	50 - 150	
Trifloxystrobin	0.000	0.342	0.368	0.400	7.5%	< 30	85.4%	92.1%	50 - 150	



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 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.