



This is an amended version of report# 25-011744/D004.R000.

Reason: Updated client information.

Customer: Utokia Herb Co.
 13639 S Union Hall Rd
 Canby Oregon 97013
 United States of America (USA)

Product identity: Live D9 Caramel, Anytime, Naturally Derived

Metric ID: .

Material: Cannabinoid Edible

Laboratory ID: 25-011744-0002

Evidence of Cooling: No

Temp: 20.9 °C

Lot #: 5004SH_100125

Serving Size #1: 18 g

Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) ^b				Batch: 2507279	Analyze: 10/03/25	
Analyte	Result	Units	LOQ	Notes	Serving Size #1		
					Result	Units	LOQ
CBD [±]	< LOQ	%	0.0070		< LOQ	mg/18g	1.3
CBD-A [±]	0.0113	%	0.0070		2.04	mg/18g	1.3
CBD-Total [±]	< LOQ	%	0.0131		< LOQ	mg/18g	2.36
CBG	0.00714	%	0.0070		1.29	mg/18g	1.3
CBG-A	< LOQ	%	0.0070		< LOQ	mg/18g	1.3
CBG-Total	< LOQ	%	0.0130		< LOQ	mg/18g	2.34
CBN	< LOQ	%	0.0070		< LOQ	mg/18g	1.3
Δ10-THC-9R	< LOQ	%	0.0070		< LOQ	mg/18g	1.3
Δ10-THC-9S	< LOQ	%	0.0070		< LOQ	mg/18g	1.3
Δ10-THC-Total	< LOQ	%	0.0139		< LOQ	mg/18g	2.51
Δ8-THC [±]	< LOQ	%	0.0070		< LOQ	mg/18g	1.3
Δ9-THC [±]	0.223	%	0.0070		40.1	mg/18g	1.3
Δ9-THC-A [±]	< LOQ	%	0.0070		< LOQ	mg/18g	1.3
Δ9-THC-Total [±]	0.223	%	0.0131		40.1	mg/18g	2.36
Total Cannabinoids	0.241	%			43.4	mg/18g	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Salmonella spp. [±]	Negative		/15g		2507363	10/10/25 AOAC 2020.02 ^b		
EHEC including STEC [±]	Negative		/15g		2507364	10/10/25 AOAC 2020.06 ^b		

Solvents	Method: Residual Solvents by HS-GC-MS ^b					Units µg/g	Batch 2507405	Analyze: 10/10/25			
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		



Solvents										
Method: Residual Solvents by HS-GC-MS ^B										
Units µg/g Batch 2507405 Analyze: 10/10/25										
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status
2,3-Dimethylbutane [⊥]	< LOQ		30.0			3-Methylpentane [⊥]	< LOQ		30.0	
Acetone [⊥]	< LOQ	5000	200	pass		Acetonitrile [⊥]	< LOQ	410	100	pass
Benzene [⊥]	< LOQ	2.00	1.00	pass		Butanes (sum) [⊥]	< LOQ	5000	400	pass
Cyclohexane [⊥]	< LOQ	3880	200	pass		Ethyl acetate [⊥]	< LOQ	5000	200	pass
Ethyl benzene	< LOQ		200			Ethyl ether [⊥]	< LOQ	5000	200	pass
Ethylene glycol [⊥]	< LOQ	620	200	pass		Ethylene oxide [⊥]	< LOQ	50.0	20.0	pass
Hexanes (sum) [⊥]	< LOQ	290	150	pass		Isopropyl acetate [⊥]	< LOQ	5000	200	pass
Isopropylbenzene (Cumene) [⊥]	< LOQ	70.0	30.0	pass		m,p-Xylene [⊥]	< LOQ		200	
Methanol [⊥]	< LOQ	3000	200	pass		Methylene chloride [⊥]	< LOQ	600	60.0	pass
Methylpropane (Isobutane) [⊥]	< LOQ		200			n-Butane [⊥]	< LOQ		200	
n-Heptane [⊥]	< LOQ	5000	200	pass		n-Hexane [⊥]	< LOQ		30.0	
n-Pentane [⊥]	< LOQ		200			o-Xylene [⊥]	< LOQ		200	
Pentanes (sum) [⊥]	< LOQ	5000	600	pass		Propane [⊥]	< LOQ	5000	200	pass
Tetrahydrofuran [⊥]	< LOQ	720	100	pass		Toluene [⊥]	< LOQ	890	100	pass
Total Xylenes [⊥]	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass

Pesticides										
Method: AOAC 2007.01 & EN 15662 (mod)										
Units mg/kg Batch 2507416 Analyze: 10/10/25										
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status
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-ethyl [⊥]	< LOQ	0.20	0.100	pass
Clofentezine [⊥]	< LOQ	0.20	0.100	pass		Cyfluthrin (sum) [⊥]	< LOQ	1.0	0.500	pass
Cypermethrin (sum) [⊥]	< LOQ	1.0	0.500	pass		Cypermethrin (sum) [⊥]	< 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



Pesticides										
Method: AOAC 2007.01 & EN 15662 (mod)						Units mg/kg	Batch 2507416	Analyze: 10/10/25		
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status
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	0.0187	2507417	10/10/25	AOAC 2013.06 (mod.) ^b			pass
Cadmium [±]	< LOQ	0.200	mg/kg	0.0187	2507417	10/10/25	AOAC 2013.06 (mod.) ^b			pass
Lead [±]	< LOQ	0.500	mg/kg	0.0187	2507417	10/10/25	AOAC 2013.06 (mod.) ^b			pass
Mercury [±]	< LOQ	0.100	mg/kg	0.00935	2507417	10/10/25	AOAC 2013.06 (mod.) ^b			pass

Mycotoxins										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method			Status	Notes
Aflatoxin B1 [±]	< LOQ		µg/kg	5.00	2507448	10/13/25	Mycotoxins by AOAC 2007.01			
Aflatoxin B2 [±]	< LOQ		µg/kg	5.00	2507448	10/13/25	Mycotoxins by AOAC 2007.01			
Aflatoxin G1 [±]	< LOQ		µg/kg	5.00	2507448	10/13/25	Mycotoxins by AOAC 2007.01			
Aflatoxin G2 [±]	< LOQ		µg/kg	5.00	2507448	10/13/25	Mycotoxins by AOAC 2007.01			
Ochratoxin A	< LOQ	20.0	µg/kg	5.00	2507448	10/13/25	Mycotoxins by AOAC 2007.01 ^b			pass
Total Aflatoxins	< LOQ	20.0	µg/kg	20.0		10/13/25	Mycotoxins by AOAC 2007.01 ^b			pass

**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.

Threshold Note: OAR 333-007-0400

Ⓟ = ISO/IEC 17025:2017 accredited method.

⊥ = TNI accredited analyte.

Units of Measure

/15g = Per 15g

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

mg/18g = Milligram per 18g

% wt = µg/g divided by 10,000


Laboratory Quality Control Results
J AOAC 2015 V98-6
Batch ID: 2507279
Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0281	0.0274	%	102	80.0 - 120	Acceptable	
CBDV	2	0.0296	0.0288	%	103	80.0 - 120	Acceptable	
CBE	2	0.0316	0.0312	%	101	80.0 - 120	Acceptable	
CBDA	1	0.0282	0.0257	%	110	90.0 - 110	Acceptable	
CBGA	1	0.0299	0.0292	%	102	80.0 - 120	Acceptable	
CBG	1	0.0273	0.0272	%	100	80.0 - 120	Acceptable	
CBD	1	0.0287	0.0270	%	106	90.0 - 110	Acceptable	
THCV	2	0.0302	0.0296	%	102	80.0 - 120	Acceptable	
d8THCV	2	0.0304	0.0298	%	102	80.0 - 120	Acceptable	
THCVA	2	0.0269	0.0260	%	103	80.0 - 120	Acceptable	
CBN	1	0.0288	0.0274	%	105	80.0 - 120	Acceptable	
exo-THC	2	0.0274	0.0272	%	101	80.0 - 120	Acceptable	
d9THC	1	0.0315	0.0295	%	107	90.0 - 110	Acceptable	
d8THC	1	0.0280	0.0271	%	103	90.0 - 110	Acceptable	
9S-d10THC	1	0.0319	0.0303	%	105	80.0 - 120	Acceptable	
CBL	2	0.0294	0.0282	%	104	80.0 - 120	Acceptable	
9R-d10THC	1	0.0318	0.0301	%	105	80.0 - 120	Acceptable	
CBC	2	0.0302	0.0298	%	102	80.0 - 120	Acceptable	
THCA	1	0.0334	0.0317	%	105	90.0 - 110	Acceptable	
CBCA	2	0.0288	0.0279	%	103	80.0 - 120	Acceptable	
CBLA	2	0.0282	0.0277	%	102	80.0 - 120	Acceptable	
d9THCP	2	0.0278	0.0271	%	103	80.0 - 120	Acceptable	
CBT	2	0.0301	0.0291	%	103	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBDV	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBE	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBDA	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBGA	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBG	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBD	<LOQ	0.00709	%	< 0.00709	Acceptable	
THCV	<LOQ	0.00709	%	< 0.00709	Acceptable	
d8THCV	<LOQ	0.00709	%	< 0.00709	Acceptable	
THCVA	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBN	<LOQ	0.00709	%	< 0.00709	Acceptable	
exo-THC	<LOQ	0.00709	%	< 0.00709	Acceptable	
d9THC	<LOQ	0.00709	%	< 0.00709	Acceptable	
d8THC	<LOQ	0.00709	%	< 0.00709	Acceptable	
9S-d10THC	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBL	<LOQ	0.00709	%	< 0.00709	Acceptable	
9R-d10THC	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBC	<LOQ	0.00709	%	< 0.00709	Acceptable	
THCA	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBCA	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBLA	<LOQ	0.00709	%	< 0.00709	Acceptable	
d9THCP	<LOQ	0.00709	%	< 0.00709	Acceptable	
CBT	<LOQ	0.00709	%	< 0.00709	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent


Laboratory Quality Control Results

J AOAC 2015 V98-6			Batch ID: 2507279					
Sample Duplicate			Sample ID: 25-011637-0001					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00707	%	NA	< 10	Acceptable	
CBGA	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBG	0.00866	0.00814	0.00707	%	6.19	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00707	%	NA	< 10	Acceptable	
THCV	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
d9THC	0.269	0.268	0.00707	%	0.400	< 10	Acceptable	
d8THC	<LOQ	<LOQ	0.00707	%	NA	< 10	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00707	%	NA	< 10	Acceptable	
CBCA	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00707	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent


Laboratory Quality Control Results

Residual Solvents				Batch ID: 2507405					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
1,2-Dichloroethene, trans-	ND	< 1		0.994	1	µg/g	99.4	50-150	
1,2-dimethoxyethane	ND	< 50		175	164	µg/g	106.7	50-150	
1,4-Dioxane	ND	< 100		393	496	µg/g	79.2	60-120	
2,2-Dimethylbutane	ND	< 30		162	172	µg/g	94.2	60-120	
2,2-Dimethylpropane	ND	< 200		601	956	µg/g	62.9	60-120	
2,3-Dimethylbutane	ND	< 30		184	173	µg/g	106.4	60-120	
2-Butanol	ND	< 200		1610	1610	µg/g	100.0	60-120	
2-Ethoxyethanol	ND	< 30		174	177	µg/g	98.3	60-120	
2-Methylbutane	ND	< 200		1680	1630	µg/g	103.1	60-120	
2-Methylpentane	ND	< 30		111	164	µg/g	67.7	60-120	
2-Propanol	ND	< 200		1550	1610	µg/g	96.3	60-120	
3-Methyl-1-butanol	ND	< 500		1710	1660	µg/g	103.0	50-150	
3-Methylpentane	ND	< 30		168	183	µg/g	91.8	60-120	
Acetone	ND	< 200		1550	1620	µg/g	95.7	60-120	
Acetonitrile	ND	< 100		518	493	µg/g	105.1	60-120	
Benzene	ND	< 1		0.845	1	µg/g	84.5	50-150	
Butane	ND	< 200		576	769	µg/g	74.9	60-120	
Butyl Acetate	ND	< 500		1700	1650	µg/g	103.0	50-150	
Carbon Tetrachloride	ND	< 1		0.753	1	µg/g	75.3	50-150	
Chlorobenzene	ND	< 1		0.699	1	µg/g	69.9	50-150	
Chloroform	ND	< 1		0.82	1	µg/g	82.0	50-150	
Cumene	ND	< 30		123	174	µg/g	70.7	60-120	
Cyclohexane	ND	< 200		1290	1630	µg/g	79.1	60-120	
Dichloromethane	ND	< 1		0.948	1	µg/g	94.8	50-150	
DMSO	ND	< 500		1550	1660	µg/g	93.4	50-150	
Ethanol	ND	< 200		1690	1630	µg/g	103.7	60-120	
Ethyl acetate	ND	< 200		1600	1630	µg/g	98.2	60-120	
Ethyl Ether	ND	< 200		1500	1620	µg/g	92.6	60-120	
Ethylbenzene	ND	< 200		746	976	µg/g	76.4	60-120	
Ethylene Glycol	ND	< 200		399	484	µg/g	82.4	60-120	
Ethylene Oxide	ND	< 1		1.18	1	µg/g	118.0	50-150	
Heptane	ND	< 200		1530	1600	µg/g	95.6	60-120	
Hexane	ND	< 30		160	172	µg/g	93.0	60-120	
Isobutane	ND	< 200		571	770	µg/g	74.2	60-120	
Isopropyl Acetate	ND	< 200		1500	1610	µg/g	93.2	60-120	
m,p-Xylene	ND	< 200		751	988	µg/g	76.0	60-120	
Methanol	ND	< 200		1750	1650	µg/g	106.1	60-120	
Methyl Acetate	ND	< 500		1700	1650	µg/g	103.0	50-150	
Methylethylketone	ND	< 500		1690	1650	µg/g	102.4	50-150	
N,N-dimethylformamide	ND	< 150		586	532	µg/g	110.2	50-150	
o-Xylene	ND	< 200		717	975	µg/g	73.5	60-120	
Pentane	ND	< 200		1630	1610	µg/g	101.2	60-120	
Propane	ND	< 200		435	585	µg/g	74.4	60-120	
Propyl Acetate	ND	< 500		1690	1660	µg/g	101.8	50-150	
Tetrahydrofuran	ND	< 100		411	486	µg/g	84.6	60-120	
Toluene	ND	< 100		375	485	µg/g	77.3	60-120	


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

QC - Sample Duplicate
Sample ID: 25-011912-0001

Analyte	SR Result	SD Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
1,2-Dichloroethene, trans-	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Carbon Tetrachloride	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chlorobenzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methylethylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100	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



Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662			Units: mg/Kg		Batch ID: 2507416			
Method Blank			Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.935	1.000	93.5	50.0 150	
Acephate	0.009	< 0.200		0.684	0.800	85.4	60.0 120	
Acequinocyl	0.077	< 1.000		2.871	4.000	71.8	40.0 160	
Acetamiprid	0.000	< 0.100		0.351	0.400	87.7	60.0 120	
Aldicarb	0.000	< 0.200		0.715	0.800	89.4	60.0 120	
Azoxystrobin	0.006	< 0.100		0.348	0.400	87.0	60.0 120	
Bifenazate	0.000	< 0.100		0.360	0.400	90.1	60.0 120	
Bifenthrin	0.002	< 0.100		0.351	0.400	87.8	50.0 150	
Boscalid	0.007	< 0.200		0.693	0.800	86.6	60.0 120	
Carbaryl	0.003	< 0.100		0.357	0.400	89.2	60.0 120	
Carbofuran	0.002	< 0.100		0.360	0.400	90.1	60.0 120	
Chlorantraniliprole	0.002	< 0.100		0.343	0.400	85.7	60.0 120	
Chlorfenapyr	0.000	< 0.500		1.511	2.000	75.6	60.0 120	
Chlorpyrifos	0.000	< 0.100		0.344	0.400	85.9	60.0 120	
Clofentezine	0.006	< 0.100		0.340	0.400	84.9	60.0 120	
Cyfluthrin	0.027	< 0.500		1.736	2.000	86.8	50.0 150	
Cypermethrin	0.005	< 0.500		1.719	2.000	85.9	50.0 150	
Daminozide	0.000	< 0.500		0.704	2.000	35.2	60.0 120	Q7
Diazinon	0.005	< 0.100		0.351	0.400	87.7	60.0 120	
Dichlorvos	0.027	< 0.500		1.728	2.000	86.4	60.0 120	
Dimethoate	0.003	< 0.100		0.351	0.400	87.8	60.0 120	
Ethoprophos	0.002	< 0.100		0.349	0.400	87.3	60.0 120	
Etofenprox	0.004	< 0.200		0.670	0.800	83.7	50.0 150	
Etoazole	0.004	< 0.100		0.338	0.400	84.5	60.0 120	
Fenoxycarb	0.005	< 0.100		0.346	0.400	86.4	60.0 120	
Fenpyroximate	0.007	< 0.200		0.665	0.800	83.1	60.0 120	
Fipronil	0.001	< 0.200		0.741	0.800	92.7	60.0 120	
Flonicamid	0.000	< 0.250		0.881	1.000	88.1	60.0 120	
Fludioxonil	0.006	< 0.200		0.761	0.800	95.1	50.0 150	
Hexythiazox	0.009	< 0.250		0.820	1.000	82.0	60.0 120	
Imazalil	0.008	< 0.100		0.360	0.400	90.1	60.0 120	
Imidacloprid	0.012	< 0.200		0.682	0.800	85.2	60.0 120	
Kresoxim-methyl	0.007	< 0.200		0.745	0.800	93.1	60.0 120	
Malathion	0.005	< 0.100		0.348	0.400	87.0	60.0 120	
Metalaxyl	0.004	< 0.100		0.363	0.400	90.8	60.0 120	
Methiocarb	0.004	< 0.100		0.348	0.400	87.1	60.0 120	
Methomyl	0.010	< 0.200		0.714	0.800	89.3	60.0 120	
MGK-264	0.001	< 0.100		0.352	0.400	87.9	50.0 150	
Myclobutanil	0.004	< 0.100		0.368	0.400	92.0	60.0 120	
Naled	0.007	< 0.250		0.893	1.000	89.3	50.0 150	
Oxamyl	0.011	< 0.500		1.746	2.000	87.3	60.0 120	
Paclobutrazole	0.003	< 0.200		0.704	0.800	88.0	60.0 120	
Parathion-Methyl	0.012	< 0.100		0.310	0.400	77.6	50.0 150	
Permethrin	0.020	< 0.100		0.372	0.400	93.1	50.0 150	
Phosmet	0.000	< 0.100		0.348	0.400	86.9	50.0 150	
Piperonyl butoxide	0.000	< 0.500		1.842	2.000	92.1	60.0 120	
Prallethrin	0.000	< 0.100		0.352	0.400	88.1	60.0 120	
Propiconazole	0.002	< 0.200		0.709	0.800	88.6	60.0 120	
Propoxur	0.001	< 0.100		0.355	0.400	88.8	60.0 120	
Pyrethrin (Summe)	0.004	< 0.100		0.442	0.488	90.7	60.0 120	
Pyridaben	0.003	< 0.100		0.334	0.400	83.5	50.0 150	
Spinosad	0.006	< 0.100		0.408	0.388	105.3	50.0 150	
Spiromesifen	0.000	< 0.100		0.351	0.400	87.7	60.0 120	
Spirotetramat	0.001	< 0.100		0.352	0.400	87.9	60.0 120	
Spiroxamine	0.008	< 0.200		0.736	0.800	92.0	60.0 120	



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662				Units: mg/Kg				Batch ID: 2507416				
Matrix Spike/Matrix Spike Duplicate Recoveries							Sample ID: 25-011744-0002					
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes		
Abamectin	0.000	0.856	0.884	1.000	3.2%	< 30	85.6%	88.4%	50 - 150			
Acephate	0.004	0.639	0.629	0.800	1.6%	< 30	79.4%	78.1%	50 - 150			
Acequinocyl	0.076	3.127	3.235	4.000	3.5%	< 30	76.3%	79.0%	50 - 150			
Acetamiprid	0.003	0.331	0.328	0.400	1.1%	< 30	82.1%	81.3%	50 - 150			
Aldicarb	0.000	0.672	0.674	0.800	0.3%	< 30	83.9%	84.2%	50 - 150			
Azoxystrobin	0.006	0.332	0.331	0.400	0.2%	< 30	81.6%	81.4%	50 - 150			
Bifenazate	0.003	0.358	0.348	0.400	2.9%	< 30	88.8%	86.3%	50 - 150			
Bifenthrin	0.001	0.375	0.356	0.400	5.1%	< 30	93.4%	88.7%	50 - 150			
Boscalid	0.007	0.671	0.697	0.800	3.7%	< 30	83.1%	86.2%	50 - 150			
Carbaryl	0.003	0.338	0.342	0.400	1.2%	< 30	83.7%	84.6%	50 - 150			
Carbofuran	0.002	0.339	0.341	0.400	0.6%	< 30	84.3%	84.8%	50 - 150			
Chlorantraniliprole	0.002	0.337	0.338	0.400	0.1%	< 30	83.9%	84.0%	50 - 150			
Chlorfenapyr	0.000	1.494	1.547	2.000	3.5%	< 30	74.7%	77.4%	50 - 150			
Chlorpyrifos	0.000	0.342	0.364	0.400	6.0%	< 30	85.5%	90.8%	50 - 150			
Clofentezine	0.006	0.338	0.332	0.400	1.6%	< 30	82.9%	81.6%	50 - 150			
Cyfluthrin	0.015	1.642	1.527	2.000	7.3%	< 30	81.4%	75.6%	30 - 150			
Cypermethrin	0.006	1.849	1.726	2.000	6.9%	< 30	92.1%	86.0%	50 - 150			
Daminozide	0.000	0.653	0.635	2.000	2.9%	< 30	32.7%	31.7%	30 - 150			
Diazinon	0.005	0.340	0.339	0.400	0.5%	< 30	83.9%	83.5%	50 - 150			
Dichlorvos	0.026	1.662	1.631	2.000	1.9%	< 30	81.8%	80.2%	50 - 150			
Dimethoate	0.003	0.336	0.339	0.400	0.7%	< 30	83.3%	83.9%	50 - 150			
Ethoprophos	0.002	0.336	0.348	0.400	3.6%	< 30	83.4%	86.5%	50 - 150			
Etofenprox	0.003	0.705	0.642	0.800	9.4%	< 30	87.7%	79.8%	50 - 150			
Etoxazole	0.004	0.340	0.348	0.400	2.4%	< 30	84.0%	86.0%	50 - 150			
Fenoxycarb	0.005	0.337	0.337	0.400	0.1%	< 30	83.1%	83.1%	50 - 150			
Fenpyroximate	0.007	0.694	0.627	0.800	10.1%	< 30	85.8%	77.5%	50 - 150			
Fipronil	0.001	0.706	0.679	0.800	4.0%	< 30	88.2%	84.8%	50 - 150			
Flonicamid	0.010	0.828	0.826	1.000	0.3%	< 30	81.8%	81.6%	50 - 150			
Fludioxonil	0.006	0.714	0.719	0.800	0.7%	< 30	88.5%	89.1%	50 - 150			
Hexythiazox	0.008	0.907	0.883	1.000	2.7%	< 30	89.9%	87.5%	50 - 150			
Imazalil	0.008	0.343	0.347	0.400	1.4%	< 30	83.8%	84.9%	50 - 150			
Imidacloprid	0.012	0.689	0.672	0.800	2.4%	< 30	84.5%	82.5%	50 - 150			
Kresoxim-methyl	0.006	0.704	0.693	0.800	1.6%	< 30	87.3%	85.9%	50 - 150			
Malathion	0.004	0.355	0.350	0.400	1.5%	< 30	87.6%	86.4%	50 - 150			
Metalaxyl	0.003	0.332	0.347	0.400	4.4%	< 30	82.2%	85.9%	50 - 150			
Methiocarb	0.004	0.337	0.341	0.400	1.3%	< 30	83.2%	84.4%	50 - 150			
Methomyl	0.010	0.695	0.684	0.800	1.7%	< 30	85.7%	84.2%	50 - 150			
MGK-264	0.000	0.351	0.354	0.400	1.0%	< 30	87.7%	88.6%	50 - 150			
Myclobutanil	0.004	0.341	0.340	0.400	0.2%	< 30	84.3%	84.1%	50 - 150			
Naled	0.007	0.864	0.891	1.000	3.1%	< 30	85.7%	88.4%	50 - 150			
Oxamyl	0.010	1.689	1.654	2.000	2.1%	< 30	84.0%	82.2%	50 - 150			
Paclobutrazole	0.003	0.697	0.676	0.800	3.0%	< 30	86.8%	84.2%	50 - 150			
Parathion-Methyl	0.000	0.337	0.373	0.400	10.0%	< 30	84.4%	93.2%	30 - 150			
Permethrin	0.000	0.409	0.392	0.400	4.3%	< 30	102.3%	98.0%	50 - 150			
Phosmet	0.000	0.343	0.346	0.400	0.9%	< 30	85.7%	86.4%	50 - 150			
Piperonyl butoxide	0.000	1.814	1.851	2.000	2.0%	< 30	90.7%	92.5%	50 - 150			
Prallethrin	0.000	0.349	0.341	0.400	2.2%	< 30	87.1%	85.1%	50 - 150			
Propiconazole	0.002	0.696	0.689	0.800	1.0%	< 30	86.8%	85.9%	50 - 150			
Propoxur	0.001	0.336	0.340	0.400	1.4%	< 30	83.6%	84.8%	50 - 150			
Pyrethrin (Summe)	0.005	0.426	0.397	0.488	7.0%	< 30	86.2%	80.3%	50 - 150			
Pyridaben	0.003	0.361	0.352	0.400	2.6%	< 30	89.6%	87.3%	50 - 150			
Spinosad	0.000	0.372	0.373	0.388	0.3%	< 30	95.8%	96.1%	50 - 150			
Spiromesifen	0.000	0.340	0.336	0.400	1.2%	< 30	84.9%	84.0%	50 - 150			
Spirotetramat	0.001	0.349	0.340	0.400	2.7%	< 30	87.0%	84.7%	50 - 150			
Spiroxamine	0.008	0.677	0.716	0.800	5.7%	< 30	83.7%	88.6%	50 - 150			





Explanation of QC Flag Comments:

Code	Explanation
A	This analysis was performed on a VOA sample containing headspace.
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.
B3	Dilution water blank of BOD was above the recommended limit; associated samples could be high biased.
CP	Client provided value.
CV	Calculated value.
E	Analyte concentration exceeds the calibration range, results are estimated.
E1	Estimated value.
E2	Estimated value. Matrix interference observed.
H	Holding time was exceeded.
J	Estimated value, above the detection limit and below the LOQ
I	Insufficient sample received to meet method requirements.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
LOQ3	< LOQ could be due to potential inhibition.
N1	See case narrative
P	Not preserved to the proper pH
P1	Storage temperature out of control
P2	Incubator temperature out of control
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.
Q7	Quality control outside QC limits.
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.
RE	Re-extracted and/or re-analyzed.
REH	The original analysis was within holding time; re-analysis past holding time.
S	Surrogate recovery outside control limit.
T	Tentatively Identified Compound (TIC) by library search.
T1	Confirmed by secondary ion
W	Results are reported on dry weight basis.