Columbia LABORATORIES
A Tentamus Company

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

Report Number:	23-005480/D002.R000
Report Date:	05/11/2023
ORELAP#:	OR100028
Purchase Order:	
Received:	05/05/23 14:15

Customer:	Flying Skull Plant Products
Product identity:	Nuke Em OC052305D
Client/Metrc ID:	.
Laboratory ID:	23-005480-0001

Summary

Pesticides:

All analytes passing and less than LOQ.

Microbiology:

Less than LOQ for all analytes.

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Customer: Flying Skull Plant Products

Product identity: Nuke Em OC052305D
Client/Metrc ID: .
Sample Date:
Laboratory ID: 23-005480-0001
Evidence of Cooling: No
Temp: 21.9
Relinquished by: client

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2307057	05/08/23	AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2307057	05/08/23	AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2307058	05/09/23	AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2307058	05/09/23	AOAC 2014.05 (RAPID)		

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Pesticides **Method:** AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2307202 **Analyze** 05/11/23 09:39 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							

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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.

Units of Measure

cfu/g = Colony forming units per gram
mg/kg = Milligram per kilogram = parts per million (ppm)
% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

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Revision: 3 Document ID: 3120
Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 &EN 15662 | Units: mg/Kg | Batch ID: 2307202

Method Blank				Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits		Notes
Abamectin	0.000	< 0.250		0.954	1.000	95.4	50.0	150	
Acephate	0.000	< 0.200		0.723	0.800	90.4	60.0	120	
Acequinocyl	0.000	< 1.000		3.827	4.000	95.7	40.0	160	
Acetamiprid	0.000	< 0.100		0.374	0.400	93.6	60.0	120	
Aldicarb	0.000	< 0.200		0.855	0.800	106.8	60.0	120	
Azoxystrobin	0.004	< 0.100		0.375	0.400	93.8	60.0	120	
Bifenazate	0.000	< 0.100		0.393	0.400	98.2	60.0	120	
Bifenthrin	0.000	< 0.100		0.386	0.400	96.4	50.0	150	
Boscalid	0.000	< 0.200		0.738	0.800	92.3	60.0	120	
Carbaryl	0.000	< 0.100		0.376	0.400	94.0	60.0	120	
Carbofuran	0.000	< 0.100		0.379	0.400	94.8	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.383	0.400	95.6	60.0	120	
Chlorfenapyr	0.000	< 0.500		1.782	2.000	89.1	60.0	120	
Chlorpyrifos	0.002	< 0.100		0.445	0.400	111.2	60.0	120	
Clofentezine	0.000	< 0.100		0.370	0.400	92.5	60.0	120	
Cyfluthrin	0.000	< 0.500		1.846	2.000	92.3	50.0	150	
Cypermethrin	0.000	< 0.500		1.889	2.000	94.5	50.0	150	
Daminozide	0.000	< 0.500		0.681	2.000	34.0	60.0	120	Q6
Diazinon	0.000	< 0.100		0.422	0.400	105.5	60.0	120	
Dichlorvos	0.000	< 0.500		1.772	2.000	88.6	60.0	120	
Dimethoate	0.000	< 0.100		0.411	0.400	102.7	60.0	120	
Ethoprophos	0.000	< 0.100		0.375	0.400	93.8	60.0	120	
Etofenprox	0.000	< 0.200		0.757	0.800	94.6	50.0	150	
Etoxazole	0.000	< 0.100		0.399	0.400	99.8	60.0	120	
Fenoxycarb	0.000	< 0.100		0.384	0.400	96.0	60.0	120	
Fenpyroximate	0.000	< 0.200		0.786	0.800	98.3	60.0	120	
Fipronil	0.000	< 0.200		0.777	0.800	97.2	60.0	120	
Flonicamid	0.000	< 0.250		0.987	1.000	98.7	60.0	120	
Fludioxonil	0.000	< 0.200		0.726	0.800	90.8	50.0	150	
Hexythiazox	0.000	< 0.250		0.916	1.000	91.6	60.0	120	
Imazalil	0.000	< 0.100		0.378	0.400	94.5	60.0	120	
Imidacloprid	0.000	< 0.200		0.826	0.800	103.2	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.791	0.800	98.9	60.0	120	
Malathion	0.000	< 0.100		0.379	0.400	94.7	60.0	120	
Metalaxyl	0.000	< 0.100		0.383	0.400	95.8	60.0	120	
Methiocarb	0.000	< 0.100		0.387	0.400	96.7	60.0	120	
Methomyl	0.000	< 0.200		0.819	0.800	102.4	60.0	120	
MGK-264	0.000	< 0.100		0.373	0.400	93.1	50.0	150	
Myclobutanil	0.000	< 0.100		0.385	0.400	96.1	60.0	120	
Naled	0.000	< 0.250		0.938	1.000	93.8	50.0	150	
Oxamyl	0.000	< 0.500		1.781	2.000	89.0	60.0	120	
Paclobutrazole	0.000	< 0.200		0.758	0.800	94.7	60.0	120	
Parathion-Methyl	0.000	< 0.100		0.398	0.400	99.5	50.0	150	
Permethrin	0.000	< 0.100		0.363	0.400	90.8	50.0	150	
Phosmet	0.000	< 0.100		0.385	0.400	96.4	50.0	150	
Piperonyl butoxide	0.000	< 0.500		1.886	2.000	94.3	60.0	120	
Prallethrin	0.000	< 0.100		0.386	0.400	96.6	60.0	120	
Propiconazole	0.000	< 0.200		0.756	0.800	94.5	60.0	120	
Propoxur	0.000	< 0.100		0.369	0.400	92.2	60.0	120	
Pyrethrin (Summe)	0.000	< 0.100		0.474	0.488	97.0	60.0	120	
Pyridaben	0.000	< 0.100		0.368	0.400	92.0	50.0	150	
Spinosad	0.000	< 0.100		0.371	0.388	95.5	50.0	150	
Spiromesifen	0.000	< 0.100		0.366	0.400	91.6	60.0	120	
Spirotetramat	0.000	< 0.100		0.371	0.400	92.6	60.0	120	
Spiroxamine	0.000	< 0.200		0.768	0.800	96.0	60.0	120	
Tebuconazole	0.000	< 0.200		0.759	0.800	94.9	60.0	120	
Thiacloprid	0.000	< 0.100		0.383	0.400	95.7	60.0	120	
Thiamethoxam	0.000	< 0.100		0.385	0.400	96.1	60.0	120	
Trifloxystrobin	0.000	< 0.100		0.352	0.400	88.1	60.0	120	

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 &EN 15662				Units: mg/Kg					Batch ID: 2307202		
Matrix Spike/Matrix Spike Duplicate Recoveries							Sample ID: 23-0054800001				
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits		Notes
Abamectin	0.000	0.289	0.263	1.000	9.4%	< 30	28.9%	26.3%	50 - 150		Q
Acephate	0.000	0.737	0.706	0.800	4.4%	< 30	92.1%	88.2%	50 - 150		
Acequinocyl	0.000	0.799	0.782	4.000	2.1%	< 30	20.0%	19.6%	50 - 150		Q
Acetamiprid	0.000	0.264	0.260	0.400	1.6%	< 30	65.9%	64.9%	50 - 150		
Aldicarb	0.000	0.586	0.579	0.800	1.2%	< 30	73.3%	72.4%	50 - 150		
Azoxystrobin	0.000	0.098	0.092	0.400	5.9%	< 30	24.5%	23.1%	50 - 150		Q
Bifenazate	0.000	0.188	0.188	0.400	0.5%	< 30	46.9%	47.1%	50 - 150		Q
Bifenthrin	0.000	0.172	0.169	0.400	1.4%	< 30	42.9%	42.3%	50 - 150		Q
Boscalid	0.000	0.522	0.479	0.800	8.5%	< 30	65.3%	59.9%	50 - 150		
Carbaryl	0.000	0.138	0.137	0.400	0.7%	< 30	34.4%	34.2%	50 - 150		Q
Carbofuran	0.000	0.198	0.198	0.400	0.3%	< 30	49.4%	49.5%	50 - 150		Q
Chlorantraniliprole	0.000	0.271	0.259	0.400	4.7%	< 30	67.7%	64.6%	50 - 150		
Chlorfenapyr	0.000	0.940	0.947	2.000	0.8%	< 30	47.0%	47.3%	50 - 150		Q
Chlorpyrifos	0.002	0.434	0.436	0.400	0.4%	< 30	108.0%	108.4%	50 - 150		
Clofentezine	0.000	0.128	0.131	0.400	2.1%	< 30	32.1%	32.8%	50 - 150		Q
Cyfluthrin	0.000	1.209	1.262	2.000	4.3%	< 30	60.5%	63.1%	30 - 150		
Cypermethrin	0.000	1.044	1.008	2.000	3.5%	< 30	52.2%	50.4%	50 - 150		
Daminozide	0.000	0.709	0.690	2.000	2.7%	< 30	35.4%	34.5%	30 - 150		
Diazinon	0.000	0.279	0.276	0.400	1.1%	< 30	69.7%	68.9%	50 - 150		
Dichlorvos	0.000	1.116	1.088	2.000	2.5%	< 30	55.8%	54.4%	50 - 150		
Dimethoate	0.000	0.373	0.363	0.400	2.8%	< 30	93.2%	90.7%	50 - 150		
Ethoprophos	0.000	0.225	0.229	0.400	1.6%	< 30	56.4%	57.3%	50 - 150		
Etofenprox	0.000	0.279	0.271	0.800	2.7%	< 30	34.8%	33.9%	50 - 150		Q
Etoxazole	0.000	0.221	0.214	0.400	3.1%	< 30	55.2%	53.6%	50 - 150		
Fenoxycarb	0.000	0.299	0.290	0.400	3.0%	< 30	74.7%	72.5%	50 - 150		
Fenpyroximate	0.000	0.444	0.442	0.800	0.5%	< 30	55.5%	55.2%	50 - 150		
Fipronil	0.000	0.481	0.474	0.800	1.4%	< 30	60.1%	59.3%	50 - 150		
Flonicamid	0.000	0.972	0.969	1.000	0.3%	< 30	97.2%	96.9%	50 - 150		
Fludioxonil	0.000	0.610	0.592	0.800	2.9%	< 30	76.2%	74.0%	50 - 150		
Hexythiazox	0.000	0.539	0.525	1.000	2.6%	< 30	53.9%	52.5%	50 - 150		
Imazalil	0.000	0.184	0.186	0.400	0.8%	< 30	46.0%	46.4%	50 - 150		Q
Imidacloprid	0.000	0.712	0.697	0.800	2.1%	< 30	89.0%	87.1%	50 - 150		
Kresoxim-methyl	0.000	0.427	0.412	0.800	3.7%	< 30	53.4%	51.5%	50 - 150		
Malathion	0.000	0.200	0.191	0.400	4.4%	< 30	49.9%	47.8%	50 - 150		Q
Metalaxyl	0.000	0.188	0.182	0.400	3.2%	< 30	47.1%	45.6%	50 - 150		Q
Methiocarb	0.000	0.216	0.203	0.400	6.2%	< 30	54.0%	50.7%	50 - 150		
Methomyl	0.000	0.826	0.829	0.800	0.4%	< 30	103.3%	103.6%	50 - 150		
MGK-264	0.000	0.163	0.158	0.400	3.1%	< 30	40.7%	39.4%	50 - 150		Q
Myclobutanil	0.000	0.325	0.313	0.400	3.9%	< 30	81.4%	78.3%	50 - 150		
Naled	0.000	0.390	0.377	1.000	3.3%	< 30	39.0%	37.7%	50 - 150		Q
Oxamyl	0.000	1.983	2.024	2.000	2.0%	< 30	99.2%	101.2%	50 - 150		
Paclobutrazole	0.000	0.575	0.554	0.800	3.6%	< 30	71.8%	69.3%	50 - 150		
Parathion-Methyl	0.000	0.222	0.182	0.400	19.8%	< 30	55.5%	45.6%	30 - 150		
Permethrin	0.000	0.140	0.139	0.400	0.8%	< 30	35.1%	34.8%	50 - 150		Q
Phosmet	0.000	0.246	0.242	0.400	1.8%	< 30	61.6%	60.5%	50 - 150		
Piperonyl butoxide	0.000	0.928	0.907	2.000	2.3%	< 30	46.4%	45.3%	50 - 150		Q
Prallethrin	0.000	0.169	0.160	0.400	5.4%	< 30	42.2%	40.0%	50 - 150		Q
Propiconazole	0.000	0.584	0.578	0.800	1.0%	< 30	73.0%	72.3%	50 - 150		
Propoxur	0.000	0.202	0.205	0.400	1.8%	< 30	50.4%	51.3%	50 - 150		
Pyrethrin (Summe)	0.000	0.151	0.147	0.488	2.2%	< 30	30.8%	30.2%	50 - 150		Q
Pyridaben	0.000	0.057	0.055	0.400	3.0%	< 30	14.2%	13.8%	50 - 150		Q
Spinosad	0.000	0.206	0.205	0.388	0.9%	< 30	53.2%	52.7%	50 - 150		
Spiromesifen	0.000	0.106	0.107	0.400	0.4%	< 30	26.6%	26.7%	50 - 150		Q
Spirotetramat	0.000	0.391	0.384	0.400	1.8%	< 30	97.7%	95.9%	50 - 150		
Spiroxamine	0.000	0.538	0.522	0.800	3.0%	< 30	67.3%	65.3%	50 - 150		
Tebuconazole	0.000	0.749	0.734	0.800	2.0%	< 30	93.6%	91.8%	50 - 150		
Thiacloprid	0.000	0.216	0.218	0.400	1.3%	< 30	53.9%	54.6%	50 - 150		
Thiamethoxam	0.000	0.373	0.374	0.400	0.3%	< 30	93.2%	93.4%	50 - 150		
Trifloxystrobin	0.000	0.179	0.176	0.400	1.5%	< 30	44.7%	44.0%	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.