



Certificate of Analysis

Compliance Test

Client Information: CKS Distro LLC 2751 Commerce Center way Pembroke Park, Florida 33023	Manufactured By: Biominerals Pharma LLC Food Entity Number # 424832 2751 Commerce Center Pembroke Park, FL 33023	Batch # 4E1MB2 Batch Date: 2025-06-05 Extracted From: D9 10mg	Test Reg State: National Food Permit #: 424832
Order # BIO250605-080001 Order Date: 2025-06-05 Sample # AAGU226 Statement of Amendment: Report format	Sampling Date: 2025-06-09 Lab Batch Date: 2025-06-09 Orig. Completion Date: 2025-06-19	Initial Gross Weight: 52.451 g	Number of Units: 1 Net Weight per Unit: 45000.000 mg



Product Image

Potency Tested	Staphylococcus Aureus Passed	HHCP Tested	Terpenes Passed	Pesticides Passed
Heavy Metals Passed	Microbiology Petrifilm Passed	Mycotoxins Passed	Residual Solvents Passed	Water Activity Passed
Listeria Monocytogenes Passed	Pathogenic Passed	Microbiology Petrifilm Passed		

National Panel Potency + Potency (LCUV) (GA) + Potency 25 (LCUV)

Specimen Weight: 202.300 mg

Pieces For Panel: 10

Analyte	Dilution (1:n)	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)
Delta-9 THC	10.000	2.80E-4	0.075	1.6900	0.1690
CBC	10.000	2.76E-5	0.075	<LOQ	<LOQ
CBCA	10.000	1.07E-4	0.015	<LOQ	<LOQ
CBD	10.000	5.40E-5	0.015	<LOQ	<LOQ
CBDA	10.000	1.00E-5	0.015	<LOQ	<LOQ
CBDV	10.000	6.50E-5	0.015	<LOQ	<LOQ
CBDVA	10.000	1.40E-5	0.015	<LOQ	<LOQ
CBE	10.000	4.83E-5	0.002	<LOQ	<LOQ
CBG	10.000	2.48E-4	0.015	<LOQ	<LOQ
CBGA	10.000	8.00E-5	0.015	<LOQ	<LOQ
CBL	10.000	3.50E-5	0.015	<LOQ	<LOQ
CBN	10.000	1.40E-5	0.015	<LOQ	<LOQ
CBNA	10.000	9.50E-5	0.015	<LOQ	<LOQ
CBT	10.000	2.00E-4	0.015	<LOQ	<LOQ
Delta-8 THC	10.000	2.60E-5	0.015	<LOQ	<LOQ
Delta-8 THC-O Acetate	10.000	2.70E-5	0.025	<LOQ	<LOQ
Exo-THC	10.000	2.30E-4	0.015	<LOQ	<LOQ
THCA-A	10.000	3.20E-5	0.015	<LOQ	<LOQ
THCV	10.000	7.00E-6	0.015	<LOQ	<LOQ
Delta-10 THC	10.000	3.00E-6	0.0015	<LOQ	<LOQ
Delta-9 THC-O Acetate	10.000	7.70E-5	0.025	<LOQ	<LOQ
Delta-8 THCV	10.000	4.00E-5	0.015	<LOQ	<LOQ
Delta8-THCP	10.000	3.75E-4	0.015	<LOQ	<LOQ
Delta9-THCP	10.000	1.17E-5	0.012	<LOQ	<LOQ
THCB	10.000	1.80E-4	0.0163	<LOQ	<LOQ
THCH	10.000	3.50E-4	0.0163	<LOQ	<LOQ
THCVA	10.000	4.70E-5	0.015	<LOQ	<LOQ
Total Active CBD	10.000			<LOQ	<LOQ
Total Active THC	10.000			1.690	0.169

Tested
SOP13.001 (LCUV)

Potency Summary

Total HHC per Serving None Detected	Delta 9 THC per Serving 0.169% 7.605 mg
Total Active CBD per Serving None Detected	Total CBG per Serving None Detected
Total CBN per Serving None Detected	Total Cannabinoids per Serving 0.169% 7.605 mg
Total Active CBD Per Package None Detected	Total Active THC per Serving 0.169% 7.605 mg
Total Active THC Per Package 0.169% 76.05 mg	Delta 9 THC per Package 0.169% 76.05 mg
Total DELTA-9-THC 0.169% 76.05 mg	

Summary Results determined from two distinct Potency Tests - National Panel Potency + Potency (LCUV) (GA) + Potency 25 (LCUV)

Terpenes Summary

Analyte	Result (mg/g)	(%)
Total Terpenes: 0.000%		

Detailed Terpenes Analysis is on the following page

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Definitions and Abbreviations used in this report: Total CBD = CBD + (CBD-A * 0.877), Total CBDV = CBDV + (CBDVA * 0.867), Total THC = (THCA-A * 0.877) + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.878) + CBG, CBN Total = (CBNA * 0.876) + CBN, Total CBC = CBC + (CBCA * 0.877), Total Cannabinoids = Total percentage of cannabinoids within the sample. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor(ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram(cfu/g) = Colony Forming Unit per Gram, , LOD = Limit of Detection, (µg/g) = Microgram per Gram(ppm) = Parts per Million, (ppm) = (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram Pesticides Indicators: 1=FL LOD/LOQ/AL; 2= CO LOD/LOQ/AL; 3 = CO LOD/ACS CO LOQ Revised report- see statement of amendment above.

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Order # BIO250605-080001 Order Date: 2025-06-05 Sample # AAGU226		Sampling Date: 2025-06-09 Lab Batch Date: 2025-06-09 Orig. Completion Date: 2025-06-19		Initial Gross Weight: 52.451 g	Number of Units: 1 Net Weight per Unit: 45000.000 mg

NP Terpenes
Specimen Weight: 202.300 mg
Dilution Factor: 20.000

Passed

				SOP13.045 (GC-MS/GC (Liquid Injection))			
Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
(+)-Cedrol	0.002	<LOQ	<LOQ	Fenchyl Alcohol	0.002	<LOQ	<LOQ
(R)-(+)-Limonene	0.002	<LOQ	<LOQ	Gamma-Terpinene	0.002	<LOQ	<LOQ
3-Carene	0.002	<LOQ	<LOQ	Geraniol	0.002	<LOQ	<LOQ
alpha-Bisabolol	0.002	<LOQ	<LOQ	Geranyl acetate	0.002	<LOQ	<LOQ
alpha-Cedrene	0.002	<LOQ	<LOQ	Guaio	0.002	<LOQ	<LOQ
alpha-Humulene	0.002	<LOQ	<LOQ	Hexahydrothymol	0.002	<LOQ	<LOQ
alpha-Phellandrene	0.002	<LOQ	<LOQ	Isoborneol	0.002	<LOQ	<LOQ
alpha-Pinene	0.002	<LOQ	<LOQ	Isopulegol	0.002	<LOQ	<LOQ
alpha-Terpinene	0.002	<LOQ	<LOQ	Linalool	0.002	<LOQ	<LOQ
beta-Myrcene	0.002	<LOQ	<LOQ	Nerol	0.002	<LOQ	<LOQ
beta-Pinene	0.002	<LOQ	<LOQ	Ocimene	0.00033	<LOQ	<LOQ
Borneol	0.002	<LOQ	<LOQ	Pulegone	0.002	<LOQ	<LOQ
Camphene	0.002	<LOQ	<LOQ	Sabinene	0.002	<LOQ	<LOQ
Camphors	0.006	<LOQ	<LOQ	Sabinene Hydrate	0.002	<LOQ	<LOQ
Caryophyllene oxide	0.002	<LOQ	<LOQ	Terpinolene	0.002	<LOQ	<LOQ
cis-Nerolidol	0.002	<LOQ	<LOQ	Total Terpinol	0.00126	<LOQ	<LOQ
Eucalyptol	0.002	<LOQ	<LOQ	trans-Caryophyllene	0.002	<LOQ	<LOQ
Farnesene	0.002	<LOQ	<LOQ	trans-Nerolidol	0.002	<LOQ	<LOQ
Fenchone	0.002	<LOQ	<LOQ	Valencene	0.002	<LOQ	<LOQ

Staphylococcus Aureus
Specimen Weight: 233.700 mg
Dilution Factor: 1.000

Passed

SOP13.029 (qPCR)

Analyte	Result
Staphylococcus aureus	Absence

National Panel Water Activity
Specimen Weight: 0.500 g
Dilution Factor: 1.000

Passed

SOP13.016 (Water Activity Analyzer)

Analyte	Action Level (aw)	Result (aw)
Water Activity	0.85	0.585

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National Panel Listeria Monocytogenes Specimen Weight: 1004.200 mg Dilution Factor: 1.000 Analyte Listeria Monocytogenes		Passed SOP13.032 (qPCR) Result Absence
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National Panel Bile Tolerant Gram-Negative Bacteria Specimen Weight: 1002.300 mg Dilution Factor: 1.000 Analyte Bile tolerant gram-negative bacteria		Passed SOP13.003 (Petrifilm) Result <100
	LOQ (cfu/g)	Action Level (cfu/g)
	100	100000

National Panel Microbiology (Petrifilm) Specimen Weight: 1002.300 mg Dilution Factor: 1.000 Analyte Total Aerobic Count Total Coliform		Passed SOP13.003 (Petrifilm) Result <1000 <100
	LOQ (cfu/g)	Action Level (cfu/g)
	1000	100000
	100	1000

National Panel Pathogenic SAE (qPCR) Specimen Weight: 1030.500 mg Dilution Factor: 1.000 Analyte Aspergillus (Flavus, Fumigatus, Niger, Terreus) E.Coli		Passed SOP13.029 (qPCR) Result Absence in 1g Absence in 1g
	Action Level (cfu/g)	Result (cfu/g)
	1	Absence in 1g
	1	Absence in 1g

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Order # BIO250605-080001 Order Date: 2025-06-05 Sample # AAGU226		Sampling Date: 2025-06-09 Lab Batch Date: 2025-06-09 Orig. Completion Date: 2025-06-19		Initial Gross Weight: 52.451 g	Number of Units: 1 Net Weight per Unit: 45000.000 mg

National Panel Mycotoxins Specimen Weight: 607.300 mg Dilution Factor: 2.470					Passed SOP13.059 (LCMS)				
Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	0.093	2.5	5	<LOQ	Aflatoxin G2	0.627	2.5	5	<LOQ
Aflatoxin B2	0.121	2.5	5	<LOQ	Aflatoxin Total		2.5	20	<LOQ
Aflatoxin G1	0.191	2.5	5	<LOQ	Ochratoxin A	0.638	3.5	20	<LOQ

HHCP Specimen Weight: 202.300 mg Dilution Factor: 1000.000					Tested SOP13.050 (LCMS)				
Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)	Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	0.000	0.075	<LOQ	<LOQ	CBC	0.000	0.075	<LOQ	<LOQ
(9S)-HHC	0.000	0.075	<LOQ	<LOQ	Delta-8 THC methyl ether	0.000	0.075	<LOQ	<LOQ
(±)-9β-hydroxy-HHC	0.000	0.075	<LOQ	<LOQ	Delta-9 THC	0.000	0.075	1.69	0.169
1(R)-H4-CBD	0.000	0.15	<LOQ	<LOQ	Delta-9 THC methyl ether	0.000	0.075	<LOQ	<LOQ
1(S)-H4-CBD	0.000	0.15	<LOQ	<LOQ	H2-CBD	0.000	0.075	<LOQ	<LOQ
9(R)-HHCP	0.000	0.075	<LOQ	<LOQ	Total HHC		0.075	<LOQ	<LOQ
9(S)-HHCP	0.000	0.075	<LOQ	<LOQ					

National Panel Heavy Metals Specimen Weight: 250.600 mg Dilution Factor: 199.521					Passed SOP13.055 (ICP-MS)				
Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Antimony (Sb)	0.032	1000	2000	<LOQ	Molybdenum (Mo)	0.009	500	1000	<LOQ
Arsenic (As)	0.014	100	200	<LOQ	Nickel (Ni)	0.352	250	500	<LOQ
Barium (Ba)	0.056	15000	30000	<LOQ	Osmium (Os)	0.003	50	100	<LOQ
Cadmium (Cd)	0.002	100	200	<LOQ	Palladium (Pd)	0.017	50	100	<LOQ
Chromium (Cr)	0.052	150	300	<LOQ	Platinum (Pt)	0.008	50	100	<LOQ
Cobalt (Co)	0.003	150	300	<LOQ	Rhodium (Rh)	0.003	50	100	<LOQ
Copper (Cu)	0.059	1500	3000	<LOQ	Ruthenium (Ru)	0.002	50	100	<LOQ
Gold (Au)	0.021	50	100	<LOQ	Selenium (Se)	4.631	6500	13000	<LOQ
Iridium (Id)	0.001	50	100	<LOQ	Silver (Ag)	0.005	350	700	<LOQ
Lead (Pb)	0.006	250	500	<LOQ	Thallium (Tl)	0.006	400	800	<LOQ
Lithium (Li)	0.301	1250	2500	<LOQ	Tin (Sn)	0.047	3000	6000	<LOQ
Mercury (Hg)	0.014	50	200	<LOQ	Vanadium (V)	0.038	50	100	<LOQ

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National Panel Residual Solvents
Specimen Weight: 50.000 mg
Dilution Factor: 1.000

Passed
SOP13.056, SOP13.039 (GCMS-
(HS), GCMS-HS)

Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.03	2	<LOQ	Ethyl Ether	0.025	500	<LOQ
1,2-Dimethoxyethane	0.025	5	<LOQ	Ethylbenzene	0.025	2170	<LOQ
1,2-Dichloroethane	0.025	2	<LOQ	Ethylene glycol	0.025	50	<LOQ
1,4-Dioxane	0.025	50	<LOQ	Ethylene Oxide	0.025	1	<LOQ
1-Butanol	0.025	5000	<LOQ	Heptane	0.025	500	<LOQ
1-Pentanol	0.025	5000	<LOQ	Hexane	0.025	10	<LOQ
1-Propanol	0.025	5000	<LOQ	Isopropyl acetate	0.025	5000	<LOQ
2-Butanone	0.025	5000	<LOQ	Isopropyl alcohol	0.025	500	<LOQ
2-Ethoxyethanol	0.025	50	<LOQ	Methanol	0.025	250	12.9
2-methylbutane	0.025	5000	<LOQ	Methylene chloride	0.025	1	<LOQ
Acetone	0.025	500	<LOQ	N,N-dimethylacetamide	0.025	50	<LOQ
Acetonitrile	0.025	50	<LOQ	N,N-dimethylformamide	0.025	50	<LOQ
Benzene	0.025	1	<LOQ	Pentane	0.025	500	<LOQ
Butanes	0.025	800	<LOQ	Propane	0.025	500	<LOQ
Chlorobenzene	0.28	50	<LOQ	Pyridine	0.025	50	<LOQ
Chloroform	0.025	1	<LOQ	Tetrahydrofuran	0.025	50	<LOQ
Cumene	0.025	50	<LOQ	Tetramethylene sulfone	0.025	160	<LOQ
Dimethyl sulfoxide	0.025	5000	<LOQ	Toluene	0.025	1	<LOQ
Ethanol	0.025	2500	46.2	Total Xylenes	0.025	3	<LOQ
Ethyl Acetate	0.025	400	<LOQ	Trichloroethylene	0.025	1	<LOQ

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2751 Commerce Center way
Pembroke Park, Florida 33023

Manufactured By:
Biominerals Pharma LLC
Food Entity Number # 424832
2751 Commerce Center
Pembroke Park, FL 33023

Batch # 4E1MB2
Batch Date: 2025-06-05
Extracted From: D9 10mg

Test Reg State: National
Food Permit #: 424832

Order # BIO250605-080001
Order Date: 2025-06-05
Sample # AAGU226

Sampling Date: 2025-06-09
Lab Batch Date: 2025-06-09
Orig. Completion Date: 2025-06-19

Initial Gross Weight: 52.451 g

Number of Units: 1
Net Weight per Unit: 45000.000 mg

National Panel Pesticides
Specimen Weight: 607.300 mg
Dilution Factor: 2.470

Passed

SOP13.059 (LCMS)

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin ¹	0.435	9	300	<LOQ	Hexythiazox ¹	0.045	9.6	2000	<LOQ	Cyantraniliprole ²	0.006004	9.6	10	<LOQ
Acephate ¹	0.467	9.6	3000	<LOQ	Imazalil ¹	0.639	9.6	100	<LOQ	Cyprodinil ²	0.001141	9.6	10	<LOQ
Acequinocyl ¹	0.801	9.6	2000	<LOQ	Imidacloprid ¹	0.159	9.6	3000	<LOQ	Dinotefuran ²	0.236975	9.6	50	<LOQ
Acetamiprid ¹	0.080	9.6	3000	<LOQ	Kresoxim Methyl ¹	0.268	9.6	1000	<LOQ	Endosulfan-alpha ²	12.22	30	2500	48.223
Aldicarb ¹	0.124	9.6	100	<LOQ	Malathion ¹	0.410	9.6	2000	<LOQ	Endosulfan-beta ²	22.76	30	2500	<LOQ
Azoxystrobin ¹	0.683	9.6	3000	<LOQ	Metalaxyl ¹	0.749	9.6	3000	<LOQ	Etridiazole ²	4.02	9.6	150	<LOQ
Bifenazate ¹	0.121	9.6	3000	<LOQ	Methiocarb ¹	0.099	9.6	100	<LOQ	Fensulfothion ²	0.000794	9.6	10	<LOQ
Bifenthrin ¹	0.082	9.6	500	<LOQ	Methomyl ¹	0.121	9.6	100	<LOQ	Fenthion ²	4.911315	9.6	10	<LOQ
Boscalid ¹	0.153	9.6	3000	<LOQ	methyl-Parathion ¹	3.065	9.6	100	<LOQ	Fluopyram ²	1.12E-9	9.6	10	<LOQ
Captan ¹	8.966	48	3000	<LOQ	Mevinphos ¹	1.370	9.6	100	<LOQ	Iprodione ²	0.105543	36	500	<LOQ
Carbaryl ¹	0.118	9.6	500	<LOQ	Myclobutanil ¹	0.571	9.6	3000	<LOQ	Kinoprene ²	3.4	441.6	1250	<LOQ
Carbofuran ¹	0.178	9.6	100	<LOQ	Naled ¹	0.083	9.6	500	<LOQ	Novaluron ²	0.000205	9.6	25	<LOQ
Chlorantraniliprole ¹	0.052	9.6	3000	<LOQ	Oxamyl ¹	0.123	9.6	500	<LOQ	Pirimicarb ²	0.0000566	9.6	10	<LOQ
Chlordane ¹	3.121	9.6	100	<LOQ	Paclobutrazol ¹	0.123	9.6	100	<LOQ	Pyraclostrobin ²	5.31E-7	9.6	10	<LOQ
Chlorfenapyr ¹	0.139	9.6	100	<LOQ	Permethrin ¹	0.718	9.6	1000	<LOQ	Resmethrin ²	0.068013	9.6	50	<LOQ
Chlormequat Chloride ¹	0.783	9.6	3000	<LOQ	Phosmet ¹	0.301	9.6	200	<LOQ	Tebufenozide ²	0.018121	9.6	10	<LOQ
Chlorpyrifos ¹	0.271	9.6	100	<LOQ	Piperonylbutoxide ¹	0.217	9.6	3000	<LOQ	Teflubenzuron ²	0.01662	9.6	25	<LOQ
Clofentezine ¹	0.119	9.6	500	<LOQ	Prallethrin ¹	1.365	9.6	400	<LOQ	Tetrachlorvinphos ²	0.839125	9.6	10	<LOQ
Coumaphos ¹	0.129	9.6	100	<LOQ	Propiconazole ¹	0.259	9.6	1000	<LOQ	Atrazine ³	0.379918	9.6	9.6	<LOQ
Cyfluthrin ¹	7.730	48	1000	<LOQ	Propoxur ¹	0.147	9.6	100	<LOQ	Buprofezin ³	1.66E-9	9.6	9.6	<LOQ
Cypermethrin ¹	0.887	9.6	1000	<LOQ	Pyrethrins ¹	0.256	1.4	1000	<LOQ	Deltamethrin ³	0.492837	9.6	9.6	<LOQ
Daminozide ¹	1.797	9.6	100	<LOQ	Pyridaben ¹	0.059	9.6	3000	<LOQ	Diuron ³	0.006862	9.6	9.6	<LOQ
Diazinon ¹	1.328	9.6	200	<LOQ	Spinetoram ¹	0.346	9.6	3000	<LOQ	Dodermorph ³	6.47E-12	9.6	9.6	<LOQ
Dichlorvos ¹	0.465	9.6	100	<LOQ	Spinosad ¹	0.028	2.39	3000	<LOQ	Endosulfan sulfate ³	0.88376	9.6	2500	<LOQ
Dimethoate ¹	0.366	9.6	100	<LOQ	Spiromesifen ¹	0.291	9.6	3000	<LOQ	Fenvalerate ³	0.597752	9.6	9.6	<LOQ
Dimethomorph ¹	0.272	9.6	3000	<LOQ	Spirotetramat ¹	0.141	9.6	3000	<LOQ	Lambda Cyhalothrin ³	0.116859	9.6	9.6	<LOQ
Ethoprophos ¹	0.192	9.6	100	<LOQ	Spiroxamine ¹	0.119	9.6	100	<LOQ	Methoprene ³	1.148463	9.6	9.6	<LOQ
Etofenprox ¹	0.116	9.6	100	<LOQ	Tebuconazole ¹	0.000	9.6	1000	<LOQ	MGK-264 ³	0.002068	7.4	7.4	<LOQ
Etoxazole ¹	0.570	9.6	1500	<LOQ	Thiacloprid ¹	0.397	9.6	100	<LOQ	Pentachloronitrobenzen (Quintozene)	1.817	9.6	200	<LOQ
Fenhexamid ¹	1.011	9.6	3000	<LOQ	Thiamethoxam ¹	0.104	9.6	1000	<LOQ	Phenothrin ³	0.000000212	9.6	9.6	<LOQ
Fenoxycarb ¹	0.169	9.6	100	<LOQ	Trifloxystrobin ¹	0.088	9.6	3000	<LOQ	Pyriproxyfen ³	0.0000958	9.6	9.6	<LOQ
Fenpyroximate ¹	0.139	9.6	2000	<LOQ	Allethrin ²	0.472	9.6	100	<LOQ	Spirodiclofen ³	0.373769	9.6	9.6	<LOQ
Fipronil ¹	0.605	9.6	100	<LOQ	Azadirachtin ²	0.003	9.6	500	<LOQ	Tetramethrin ³	0.0000992	9.6	9.6	<LOQ
Flonicamid ¹	0.128	9.6	2000	<LOQ	Benzovindiflupyr ²	0.013	9.6	10	<LOQ	Thiabendazole ³	0.001251	9.6	9.6	<LOQ
Fludioxonil ¹	0.521	9.6	3000	<LOQ	Clothianidin ²	0.000	9.6	25	<LOQ	Thiophanate-methyl ³	0.000223	9.6	9.6	<LOQ

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Definitions are found on page 1

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