

## Diamonds

Sample ID: 2308APO1967.9420  
Strain: THCA Isolate

Produced:  
Collected: 08/08/2023 12:43 pm  
Received: 08/08/2023  
Completed: 08/14/2023  
Batch #: IO-0806-THCA

Client  
**Io Extracts**  
Lic. # 00000077DCPS00216601  
  
Lot #: IO-0806-THCA

Matrix: Concentrates & Extracts  
Type: Diamonds



## Summary

Test	Date Tested	Result
Batch		Pass
Cannabinoids	08/10/2023	Complete
Terpenes	08/14/2023	Complete
Residual Solvents	08/09/2023	Pass
Microbials	08/11/2023	Pass
Mycotoxins	08/09/2023	Pass
Pesticides	08/09/2023	Pass
Heavy Metals	08/09/2023	Pass

## Cannabinoids

Complete

<b>87.3338%</b>	<b>ND</b>	<b>99.5681%</b>	<b>0.0000%</b>
Total THC	Total CBD	Total Cannabinoids <sup>(Q3)</sup>	Total Terpenes <sup>(Q3)</sup>

Analyte	LOD	LOQ	Result	Result	Q
	%	%	%	mg/g	
THCa		0.1000	99.4652	994.652	
Δ9-THC		0.1000	0.1028	1.028	
Δ8-THC		0.1000	ND	ND	
THCV		0.1000	ND	ND	
CBDa		0.1000	ND	ND	
CBD		0.1000	ND	ND	
CBDVa		0.1000	ND	ND	
CBDV		0.1000	ND	ND	
CBN		0.1000	ND	ND	
CBGa		0.1000	ND	ND	
CBG		0.1000	ND	ND	
CBC		0.1000	ND	ND	
<b>Total THC</b>			<b>87.3338</b>	<b>873.3380</b>	
<b>Total CBD</b>			<b>ND</b>	<b>ND</b>	
<b>Total</b>			<b>99.5681</b>	<b>995.681</b>	

Date Tested: 08/10/2023 02:00 pm



Bryant Kearl  
Lab Director  
08/14/2023

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## Pesticides

Analyte	LOQ	Limit	Units	Q	Status	Analyte	LOQ	Limit	Units	Q	Status
	PPM	PPM	PPM				PPM	PPM	PPM		
Abamectin	0.2500	0.5000	ND	M2	Pass	Hexythiazox	0.5000	1.0000	ND		Pass
Acephate	0.2000	0.4000	ND		Pass	Imazalil	0.1000	0.2000	ND		Pass
Acequinocyl	1.0000	2.0000	ND		Pass	Imidacloprid	0.2000	0.4000	ND		Pass
Acetamiprid	0.1000	0.2000	ND		Pass	Kresoxim Methyl	0.2000	0.4000	ND		Pass
Aldicarb	0.2000	0.4000	ND		Pass	Malathion	0.1000	0.2000	ND		Pass
Azoxystrobin	0.1000	0.2000	ND		Pass	Metalaxyl	0.1000	0.2000	ND		Pass
Bifenazate	0.1000	0.2000	ND	M1	Pass	Methiocarb	0.1000	0.2000	ND		Pass
Bifenthrin	0.1000	0.2000	ND		Pass	Methomyl	0.2000	0.4000	ND		Pass
Boscalid	0.2000	0.4000	ND		Pass	Myclobutanil	0.1000	0.2000	ND		Pass
Carbaryl	0.1000	0.2000	ND		Pass	Naled	0.2500	0.5000	ND		Pass
Carbofuran	0.1000	0.2000	ND		Pass	Oxamyl	0.5000	1.0000	ND		Pass
Chlorantraniliprole	0.1000	0.2000	ND		Pass	Paclobutrazol	0.2000	0.4000	ND		Pass
Chlorfenapyr	0.5000	1.0000	ND		Pass	Permethrins	0.1000	0.2000	ND		Pass
Chlorpyrifos	0.1000	0.2000	ND		Pass	Phosmet	0.1000	0.2000	ND		Pass
Clofentezine	0.1000	0.2000	ND		Pass	Piperonyl Butoxide	1.0000	2.0000	ND		Pass
Cyfluthrin	0.5000	1.0000	ND	M1	Pass	Prallethrin	0.1000	0.2000	ND	M1	Pass
Cypermethrin	0.5000	1.0000	ND	M1	Pass	Propiconazole	0.2000	0.4000	ND		Pass
Daminozide	0.5000	1.0000	ND		Pass	Propoxur	0.1000	0.2000	ND		Pass
Diazinon	0.1000	0.2000	ND		Pass	Pyrethrins	0.5000	1.0000	ND	M1	Pass
Dichlorvos	0.0500	0.1000	ND		Pass	Pyridaben	0.1000	0.2000	ND		Pass
Dimethoate	0.1000	0.2000	ND		Pass	Spinosad	0.1000	0.2000	ND		Pass
Ethoprophos	0.1000	0.2000	ND		Pass	Spiromesifen	0.1000	0.2000	ND	M2	Pass
Etofenprox	0.2000	0.4000	ND	M2	Pass	Spirotetramat	0.1000	0.2000	ND		Pass
Etoxazole	0.1000	0.2000	ND		Pass	Spiroxamine	0.2000	0.4000	ND	M1	Pass
Fenoxycarb	0.1000	0.2000	ND		Pass	Tebuconazole	0.2000	0.4000	ND		Pass
Fenpyroximate	0.2000	0.4000	ND		Pass	Thiacloprid	0.1000	0.2000	ND		Pass
Fipronil	0.2000	0.4000	ND		Pass	Thiamethoxam	0.1000	0.2000	ND		Pass
Flonicamid	0.5000	1.0000	ND		Pass	Trifloxystrobin	0.1000	0.2000	ND		Pass
Fludioxonil	0.2000	0.4000	ND		Pass						

## Herbicides

Analyte	LOQ	Limit	Units	Q	Status
	PPM	PPM	PPM		
Pendimethalin	0.0500	0.1000	ND		Pass

Date Tested: 08/09/2023 07:00 am  
Pendimethalin is no longer a regulated parameter pursuant to HB2605 2021.



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Lab Director  
08/14/2023

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## Microbials

Pass

Analyte	Limit	Result	Status	Q
Salmonella SPP	Detected/Not Detected in 1g	ND	Pass	
Aspergillus flavus	Detected/Not Detected in 1g	ND	Pass	
Aspergillus fumigatus	Detected/Not Detected in 1g	ND	Pass	
Aspergillus niger	Detected/Not Detected in 1g	ND	Pass	
Aspergillus terreus	Detected/Not Detected in 1g	ND	Pass	

Analyte	LOQ	Limit	Result	Status	Q
E. Coli	CFU/g 10.0	CFU/g 100.0	CFU/g < 10 CFU/g	Pass	

Date Tested: 08/11/2023 12:00 am

## Mycotoxins

Pass

Analyte	LOD	LOQ	Limit	Units	Status	Q
B1	µg/kg 5	µg/kg 10	µg/kg 20	µg/kg ND	Pass	
B2	5	10	20	ND	Pass	
G1	5	10	20	ND	Pass	
G2	5	10	20	ND	Pass	
Total Aflatoxins	5	10	20	ND	Pass	
Ochratoxin A	5	10	20	ND	Pass	

Date Tested: 08/09/2023 07:00 am

## Heavy Metals

Pass

Analyte	LOD	LOQ	Limit	Units	Status	Q
Arsenic	µg/g 0.066	µg/g 0.133	µg/g 0.4	µg/g ND	Pass	
Cadmium	0.066	0.133	0.4	ND	Pass	
Lead	0.166	0.333	1	ND	Pass	M2
Mercury	0.2	0.4	1.2	ND	Pass	

Date Tested: 08/09/2023 12:00 am



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## Residual Solvents

Analyte	LOQ	Limit	Mass	Status	Q
	PPM	PPM	PPM		Pass
Acetone	381.0000	1000.0000	ND	Pass	
Acetonitrile	154.0000	410.0000	ND	Pass	
Benzene	1.0000	2.0000	ND	Pass	
Butanes	1914.0000	5000.0000	ND	Pass	
Chloroform	24.0000	60.0000	ND	Pass	
Dichloromethane	231.0000	600.0000	ND	Pass	
Ethanol	1910.0000	5000.0000	ND	Pass	
Ethyl-Acetate	1907.0000	5000.0000	ND	Pass	
Ethyl-Ether	1901.0000	5000.0000	ND	Pass	
n-Heptane	1892.0000	5000.0000	ND	Pass	
Hexanes	115.0000	290.0000	ND	Pass	
Isopropanol	1915.0000	5000.0000	ND	Pass	
Isopropyl-Acetate	1908.0000	5000.0000	ND	Pass	
Methanol	1141.0000	3000.0000	ND	Pass	
Pentane	1923.0000	5000.0000	ND	Pass	
Propane	1907.0000	5000.0000	ND	Pass	
Toluene	343.0000	890.0000	ND	Pass	
Xylenes + Ethyl Benzene	841.0000	2170.0000	ND	Pass	

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## Terpenes

Analyte	LOQ	Mass	Mass	Q	Analyte	LOQ	Mass	Mass	Q
	%	%	mg/g			%	%	mg/g	
3-Carene	0.0051	ND	ND	Q3	Fenchone	0.0064	ND	ND	Q3
α-Bisabolol	0.0072	ND	ND	Q3	γ-Terpinene	0.0049	ND	ND	Q3
α-Cedrene	0.0052	ND	ND	Q3	Geraniol	0.0083	ND	ND	Q3
α-Humulene	0.0059	ND	ND	Q3	Geranyl Acetate	0.0082	ND	ND	Q3
α-Phellandrene	0.0042	ND	ND	Q3	Guaiol	0.0065	ND	ND	Q3
α-Pinene	0.0056	ND	ND	Q3	Hexahydro Thymol	0.0109	ND	ND	Q3
α-Terpinene	0.0105	ND	ND	Q3	Isoborneol	0.0115	ND	ND	Q3
trans-β-Farnesene	0.0049	ND	ND	Q3	Isopulegol	0.0079	ND	ND	Q3
β-Myrcene	0.0055	ND	ND	Q3	Limonene	0.0054	ND	ND	Q3
β-Pinene	0.0049	ND	ND	Q3	Linalool	0.0061	ND	ND	Q3
Borneol	0.0062	ND	ND	Q3	Nerol	0.0108	ND	ND	Q3
Camphene	0.0039	ND	ND	Q3	Ocimene	0.0057	ND	ND	Q3
Camphor	0.0154	ND	ND	Q3	Pulegone	0.0072	ND	ND	Q3
Caryophyllene Oxide	0.0064	ND	ND	Q3	Sabinene	0.0061	ND	ND	Q3
Cedrol	0.0060	ND	ND	Q3	Sabinene Hydrate	0.0086	ND	ND	Q3
cis-β-Farnesene	0.0074	ND	ND	Q3	Terpinolene	0.0047	ND	ND	Q3
cis-Nerolidol	0.0086	ND	ND	Q3	trans-Caryophyllene	0.0057	ND	ND	Q3
Endo-Fenchyl Alcohol	0.0136	ND	ND	Q3	trans-Nerolidol	0.0089	ND	ND	Q3
Eucalyptol	0.0054	ND	ND	Q3	Valencene	0.0061	ND	ND	Q3
α-Farnesene	0.0073	ND	ND	Q3	<b>Total</b>		<b>0.0000</b>	<b>0</b>	

## Primary Aromas

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Date Tested: 08/14/2023 12:00 am  
Terpenes analysis is not regulated by AZDHS.



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**Qualifiers Definitions**

Qualifier Notation	Qualifier Description
I1	The relative intensity of a characteristic ion in a sample analyte exceeded the acceptance criteria in subsection (L)(1) with respect to the reference spectra, indicating interference
L1	When testing for pesticides, fungicides, herbicides, growth regulators, heavy metals, or residual solvents, the percent recovery of a laboratory control sample is greater than the acceptance limits in subsection (K)(2)(c), but the sample's target analytes were not detected above the maximum allowable concentrations in Table 3.1 for the analytes in the sample
M1	The recovery from the matrix spike in subsection (K)(4) was: a. High, but the recovery from the laboratory control sample in subsection (K)(2) was within acceptance criteria
M2	The recovery from the matrix spike in subsection (K)(4) was: b. Low, but the recovery from the laboratory control sample in subsection (K)(2) was within acceptance criteria
M3	The recovery from the matrix spike in subsection (K)(4) was: c. Unusable because the analyte concentration was disproportionate to the spike level, but the recovery from the laboratory control sample in subsection (K)(2) was within acceptance criteria
R1	The relative percent difference for the laboratory control sample and duplicate exceeded the limit in subsection (K)(3), but the recovery in subsection (K)(2) was within acceptance criteria
V1	The recovery from continuing calibration verification standards exceeded the acceptance limits in subsection (J)(1)(b), but the sample's target analytes were not detected above the maximum allowable concentrations in Table 3.1 for the analytes in the sample
Q2	The sample is heterogeneous, and sample homogeneity could not be readily achieved using routine laboratory practices - Used to denote that the sample as-received could not be fully pre-homogenized in packaging prior to microbiology analysis
Q3	Testing result is for informational purposes only and cannot be used to satisfy dispensary testing requirements in R9-17-317.01(A) or labeling requirements in R9-17-317



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