

# Crystal Resistant CBN Oil

Sample ID: 2104KCA0602.1438

Cultivar: N/A

Matrix: Ingestible

Type: Liquid Fats (Oils)

Sample Size:

Received: 04/15/2021

Completed: 04/19/2021

Batch#: 10004003

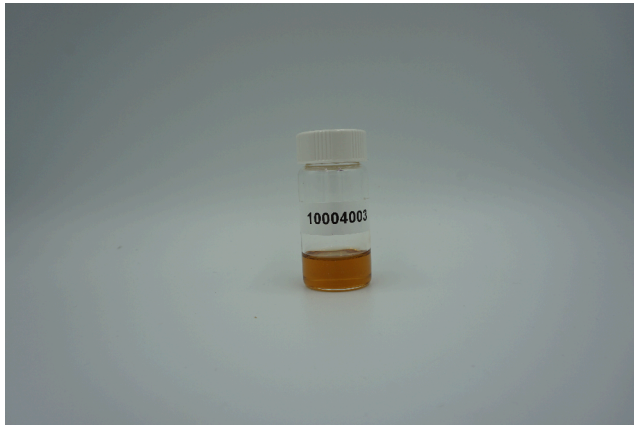
Client

**Avient Biosciences**

Lic.#

3040 Black Creek Road SE

Wilson, NC 27893



## Summary

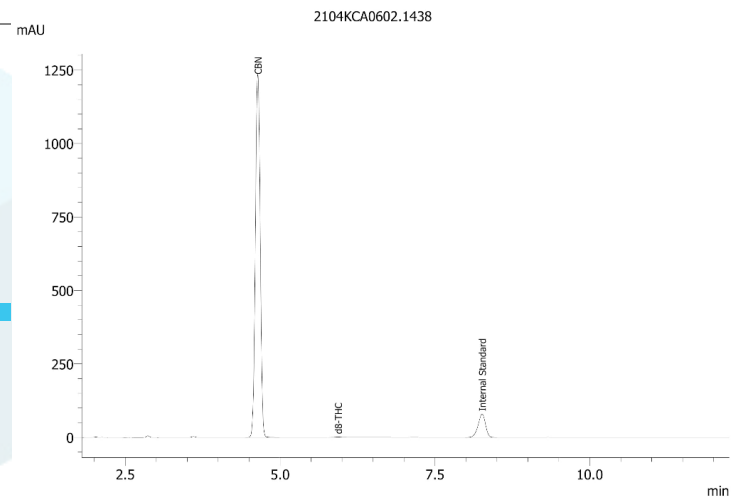
Test	Date Tested	Result
Cannabinoids	04/16/2021	Complete
Residual Solvents	04/19/2021	Complete
Microbials	04/19/2021	Complete
Mycotoxins	04/16/2021	Complete
Pesticides	04/16/2021	Complete
Heavy Metals	04/19/2021	Complete

## Cannabinoids by HPLC-PDA

Complete

<b>ND</b> Total THC	<b>ND</b> Total CBD	<b>41.5157%</b> Total Cannabinoids	<b>NT</b> Not Tested Moisture Content	<b>Not Tested</b> Foreign Matter
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Analyte	LOD %	LOQ %	Result %	Result mg/g
CBC	0.0095	0.0284	ND	ND
CBCA	0.0181	0.0543	ND	ND
CBCV	0.0060	0.0180	ND	ND
CBD	0.0081	0.0242	ND	ND
CBDA	0.0043	0.0130	ND	ND
CBDV	0.0061	0.0182	ND	ND
CBDVA	0.0021	0.0063	ND	ND
CBG	0.0057	0.0172	ND	ND
CBGA	0.0049	0.0147	ND	ND
CBL	0.0112	0.0335	ND	ND
CBLA	0.0124	0.0371	ND	ND
CBN	0.0056	0.0169	41.4360	414.360
CBNA	0.0060	0.0181	ND	ND
Δ8-THC	0.0104	0.0312	0.0797	0.797
Δ9-THC	0.0076	0.0227	ND	ND
THCA	0.0084	0.0251	ND	ND
THCV	0.0069	0.0206	ND	ND
THCVA	0.0062	0.0186	ND	ND
<b>Total THC</b>			<b>ND</b>	<b>ND</b>
<b>Total CBD</b>			<b>ND</b>	<b>ND</b>
<b>Total</b>			<b>41.5157</b>	<b>415.157</b>



Total THC = THCA \* 0.877 + Δ9-THC

Total CBD = CBDA \* 0.877 + CBD

LOD = Limit of Detection

LOQ = Limit of Quantitation

ND = None Detected

For plant material, the reported result is based on a sample weight with the applicable moisture content for that sample.



*Wes Rogers*

Wes Rogers  
Principal Scientist  
04/19/2021



ISO/IEC 17025:2017 Accredited  
Accreditation #108651

This product or substance has been tested by KCA Laboratories using validated testing methodologies and a quality system. Values reported relate only to the product or substance tested. KCA Laboratories makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected amounts of any substances reported herein. This Certificate of Analysis shall not be reproduced except in full, without the written approval of KCA Laboratories.

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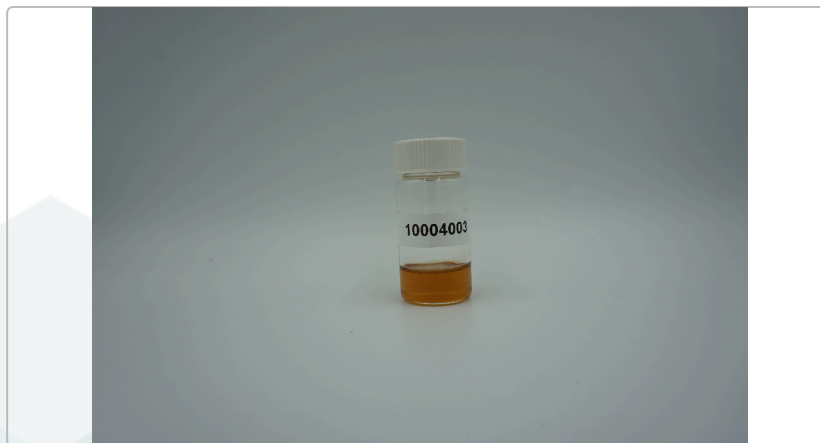
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### Heavy Metals by ICP-MS

Complete

Analyte	LOD µg/g	LOQ µg/g	Mass µg/g
Arsenic	0.002	0.02	ND
Cadmium	0.001	0.02	ND
Lead	0.002	0.02	ND
Mercury	0.012	0.05	ND

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### Pesticides by LCMS/MS & GCMS/MS

Complete

Analyte	LOD	LOQ	Mass	Analyte	LOD	LOQ	Mass
	PPM	PPM	PPM		PPM	PPM	PPM
Abamectin	0.01	0.05	ND	Hexythiazox	0.01	0.05	ND
Acephate	0.01	0.05	ND	Imazalil	0.01	0.05	ND
Acequinocyl	0.01	0.05	ND	Imidacloprid	0.01	0.05	ND
Acetamiprid	0.01	0.05	ND	Kresoxim Methyl	0.01	0.05	ND
Aldicarb	0.01	0.05	ND	Malathion	0.01	0.05	ND
Azoxystrobin	0.01	0.05	ND	Metalaxyl	0.01	0.05	ND
Bifenazate	0.01	0.05	ND	Methiocarb	0.01	0.05	ND
Bifenthrin	0.01	0.05	ND	Methomyl	0.01	0.05	ND
Boscalid	0.01	0.05	ND	Mevinphos	0.01	0.05	ND
Carbaryl	0.01	0.05	ND	Myclobutanil	0.01	0.05	ND
Carbofuran	0.01	0.05	ND	Naled	0.01	0.05	ND
Chlorantraniliprole	0.01	0.05	ND	Oxamyl	0.01	0.05	ND
Chlorpyrifos	0.01	0.05	ND	Pacllobutrazol	0.01	0.05	ND
Clofentezine	0.01	0.05	ND	Permethrin	0.01	0.05	ND
Coumaphos	0.01	0.05	ND	Phosmet	0.01	0.05	ND
Cypermethrin	0.01	0.05	ND	Piperonyl Butoxide	0.01	0.05	ND
Daminozide	0.01	0.05	ND	Prallethrin	0.01	0.05	ND
Diazinon	0.01	0.05	ND	Propiconazole	0.01	0.05	ND
Dichlorvos	0.01	0.05	ND	Propoxur	0.01	0.05	ND
Dimethoate	0.01	0.05	ND	Pyrethrins	0.01	0.05	ND
Dimethomorph	0.01	0.05	ND	Pyridaben	0.01	0.05	ND
Ethoprophos	0.01	0.05	ND	Spinetoram	0.01	0.05	ND
Etofenprox	0.01	0.05	ND	Spinosad	0.01	0.05	ND
Etoxazole	0.01	0.05	ND	Spiromesifen	0.01	0.05	ND
Fenhexamid	0.01	0.05	ND	Spirotetramat	0.01	0.05	ND
Fenoxycarb	0.01	0.05	ND	Spiroxamine	0.01	0.05	ND
Fenpyroximate	0.01	0.05	ND	Tebuconazole	0.01	0.05	ND
Fipronil	0.01	0.05	ND	Thiacloprid	0.01	0.05	ND
Flonicamid	0.01	0.05	ND	Thiamethoxam	0.01	0.05	ND
Fludioxonil	0.01	0.05	ND	Trifloxystrobin	0.01	0.05	ND

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### Microbials by qPCR

Complete

#### Analyte

#### Result

Aerobic Bacteria

CFU/g

Shiga toxin-producing E. Coli

Not Detected in 1g

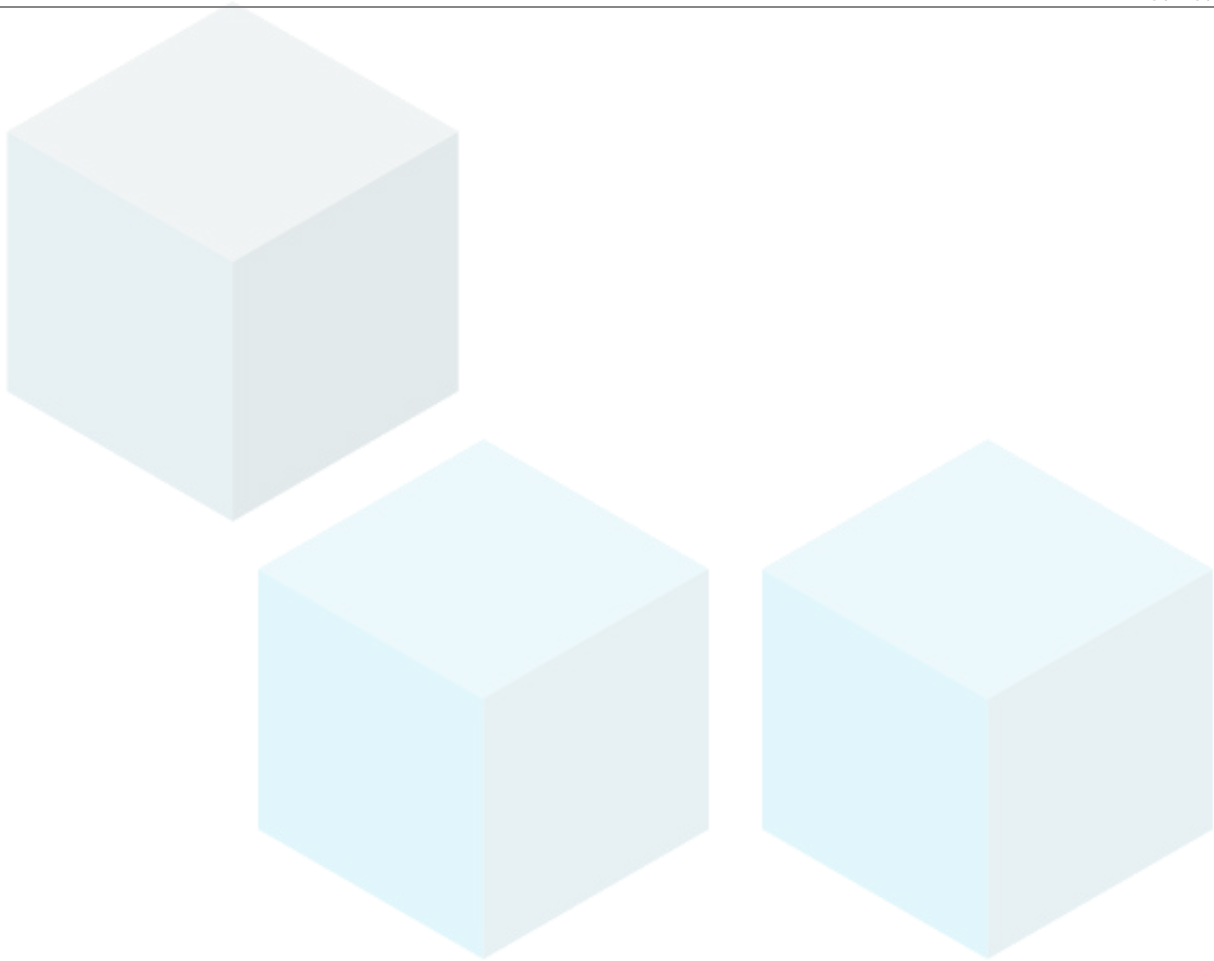
Enterobacteriaceae

Not Detected in 1g

Salmonella

Not Detected in 1g

Not Detected in 1g



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TNTC = Too Numerous to Count; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.




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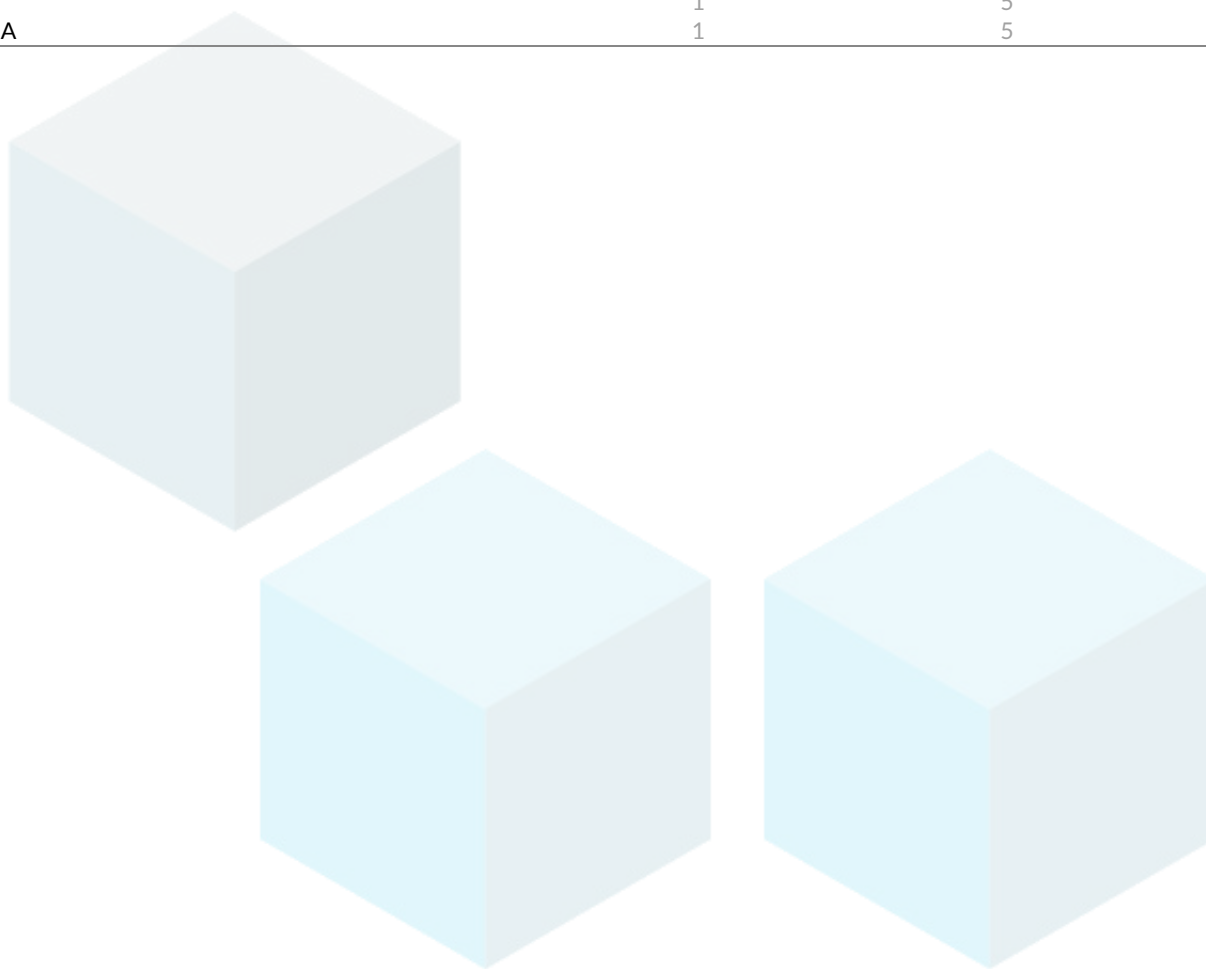
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### Mycotoxins by LCMS/MS

Complete

Analyte	LOD PPB	LOQ PPB	Units PPB
B1	1	5	ND
B2	1	5	ND
G1	1	5	ND
G2	1	5	ND
Ochratoxin A	1	5	ND



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### Residual Solvents by HS-GC/MS

Complete

Analyte	LOD	LOQ	Mass	Analyte	LOD	LOQ	Mass
	PPM	PPM	PPM		PPM	PPM	PPM
Acetone	0.5	1	ND	Heptane	0.5	1	384.625
Acetonitrile	0.5	1	ND	Isobutane	0.5	1	ND
Benzene	0.5	1	ND	Isopropanol	0.5	1	9.150
Butane	0.5	1	ND	Isopropyl-Acetate	0.5	1	ND
1-Butanol	0.5	1	ND	Methanol	0.5	1	2.125
2-Butanol	0.5	1	ND	2-Methyl-Butane	0.5	1	ND
2-Butanone	0.5	1	ND	2-Methyl-Pentane	0.5	1	ND
Chloroform	0.5	1	ND	3-Methyl-Pentane	0.5	1	ND
Cumene	0.5	1	ND	Methylene-Chloride	0.5	1	ND
Cyclohexane	0.5	1	ND	N,N-Dimethyl-Acetamide	0.5	1	ND
1,2-Dichloro-Ethane	0.5	1	ND	N,N-Dimethyl-Formamide	0.5	1	ND
1,2-Dimethoxy-Ethane	0.5	1	ND	Neopentane	0.5	1	ND
2,2-Dimethyl-Butane	0.5	1	ND	1-Pentanol	0.5	1	ND
2,3-Dimethyl-Butane	0.5	1	ND	Propane	0.5	1	ND
Dimethyl sulfoxide	0.5	1	ND	1-Propanol	0.5	1	ND
1,4-Dioxane	0.5	1	ND	Pyridine	0.5	1	ND
Ethanol	0.5	1	6.534	Sulfolane	0.5	1	ND
2-Ethoxy-Ethanol	0.5	1	ND	Tetrahydrofuran	0.5	1	ND
Ethyl-Acetate	0.5	1	17.781	Toluene	0.5	1	ND
Ethyl-Benzene	0.5	1	ND	Trichloroethene	0.5	1	ND
Ethyl-Ether	0.5	1	ND	Xylenes	0.5	1	ND
Ethylene glycol	0.5	1	ND	n-Hexane	0.5	1	ND
Ethylene oxide	0.5	1	ND	n-Pentane	0.5	1	10.447

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