



**Pure CBD Isolate INN02-04**

**Indigo Naturals**

Test Result UID: ANL0041880

Lot Inventory ID:

316 Mid Valley Center

Lab Inventory ID:

#283

Date Tested: 01/26/2021

Serving Size:

=

Carmel, CA 93923

US



**Summary**

<b>Not Tested</b> Total Cannabinoids	<b>Pass</b> Microbial	<b>Not Tested</b> Mycotoxins	<b>Pass</b> Residual Solvents	<b>Pass</b> Pesticides	<b>Pass</b> Heavy Metals
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**Cannabinoids**

Testing method: HPLC-SOP 0011

Analyte	LOD	LOQ	Mass	Mass
Δ9-THC-A	0.000 mg/g	0.001 mg/g	NT	NT
Δ9-THC	0.000 mg/g	0.001 mg/g	NT	NT
Δ9-THCV	0.000 mg/g	0.001 mg/g	NT	NT
Δ8-THC	0.000 mg/g	0.001 mg/g	NT	NT
CBN	0.000 mg/g	0.001 mg/g	NT	NT
CBD-A	0.000 mg/g	0.001 mg/g	NT	NT
CBD	0.000 mg/g	0.001 mg/g	NT	NT
CBDV-A	0.000 mg/g	0.001 mg/g	NT	NT
CBDV	0.000 mg/g	0.001 mg/g	NT	NT
CBG-A	0.000 mg/g	0.001 mg/g	NT	NT
CBG	0.000 mg/g	0.001 mg/g	NT	NT
CBC	0.000 mg/g	0.001 mg/g	NT	NT

**Terpenes**

Testing method: HSGCFID-SOP 0030

Analyte	LOD	LOQ	Mass	Mass
α-Pinene	0.00 mg/g	0.01 mg/g	NT	NT
β-Pinene	0.00 mg/g	0.01 mg/g	NT	NT
Myrcene	0.00 mg/g	0.01 mg/g	NT	NT
Ocimene	0.00 mg/g	0.01 mg/g	NT	NT
Limonene	0.00 mg/g	0.01 mg/g	NT	NT
Terpinolene	0.00 mg/g	0.01 mg/g	NT	NT
Linalool	0.00 mg/g	0.01 mg/g	NT	NT
Caryophyllene	0.00 mg/g	0.01 mg/g	NT	NT
Humulene	0.00 mg/g	0.01 mg/g	NT	NT

**Not Tested**  
Total THC

**Not Tested**  
Total CBD

**Not Tested**  
Total Terpenes

Total THC = Δ9-THC-A \* 0.877 + Δ9-THC  
Total CBD = CBD-A \* 0.877 + CBD  
LOQ = Limit of Quantification; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected

The values reported pertain only to the product tested.

**Not Tested**  
Moisture  
SOP-0009

**Not Tested**  
Water Activity  
SOP-0053

**Not Tested**  
Foreign Matter  
SOP-0010



Analytical 360, LLC certifies that the results presented are true and correct to the best of our knowledge. These results relate only to the sample provided by the client to Analytical 360, LLC.

Reference Lab  
Analytical 360, LLC subcontracts the following assays:

Mycotoxins, Pesticides and Heavy Metals performed by Medicine Creek Analytics (WSLCB Lab #0018)

Approved By

*Paul D. Matthews, Ph.D.*

Paul Matthews, Ph.D.  
Executive Lab Director / Chief Science Officer



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**Microbial** Testing method: PLATE-SOP 0007

Analyte	LOD	LOQ	Action Level	Mass	Status
Enterobacteria	20 CFU/g	85 CFU/g	1000 CFU/g	NT	NT
Salmonella spp.	-	-	Any Detected in 1 g		NT
Escherichia coli	-	-	Any Detected in 1 g		NT
Total Aerobic Bacteria	170 CFU/g	850 CFU/g	No Limit	ND CFU/g	
Total Yeast and Mold	170 CFU/g	850 CFU/g	No Limit	ND CFU/g	
Total Coliforms	20 CFU/g	85 CFU/g	No Limit	ND CFU/g	

**Mycotoxins** Testing method: ELISA-SOP 0054

Analyte	LOD	LOQ	Action Level	Mass	Status
Aflatoxins B1, B2, G1, G2	0.1 ppb	1.0 ppb	20 ppb	NT	NT
Ochratoxin A	0.1 ppb	1.0 ppb	20 ppb	NT	NT

**Heavy Metals** Testing method: ICPMS-SOP 0055

Analyte	LOD	LOQ	Action Level	Mass	Status
Arsenic	0.02 ug/5g	0.06 ug/5g	10 ug/5g	ND ug/5g	Pass
Cadmium	0.01 ug/5g	0.04 ug/5g	4.1 ug/5g	ND ug/5g	Pass
Lead	0.01 ug/5g	0.02 ug/5g	6 ug/5g	ND ug/5g	Pass
Mercury	0.02 ug/5g	0.07 ug/5g	2 ug/5g	ND ug/5g	Pass

Washington State I-502 Recreational Marijuana Microbial / Mycotoxins Action Levels

Counts not to exceed:

- 1,000 CFU/g Enterobacteria for solvent extracts and edibles
- 10,000 CFU/g Enterobacteria for flower, hash and kief
- *E coli* and *Salmonella* **not detected** in one gram for all products
- 20 ppb for Aflatoxins B1, B2, G1, G2, and Ochratoxin A for all products

LOQ = Limit of Quantification; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected  
CFU/g = Colony Forming Units Per Gram; ppm = Parts per Million; ppb = Parts per Billion  
TNTC = Too Numerous To Count

The values reported pertain only to the product tested.

**Pass**  
Microbial

**Not Tested**  
Mycotoxins

**Pass**  
Heavy Metals



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**Residual Solvents** Testing method: HSGCFID-SOP 0020

Analyte	LOD	LOQ	Action Level	Mass
Propane	1 ppm	20 ppm	5000 ppm	ND ppm
Isobutane	1 ppm	20 ppm	5000 ppm	ND ppm
Butane	1 ppm	20 ppm	5000 ppm	ND ppm
Ethanol	1 ppm	20 ppm	No Limit	NT
Acetone	1 ppm	20 ppm	5000 ppm	ND ppm
Toluene	1 ppm	20 ppm	890 ppm	ND ppm
Pentane	1 ppm	20 ppm	5000 ppm	ND ppm
Isopropanol	1 ppm	20 ppm	5000 ppm	ND ppm
Hexane	1 ppm	20 ppm	290 ppm	ND ppm
Heptane	1 ppm	20 ppm	5000 ppm	ND ppm
Isopentane	1 ppm	20 ppm	5000 ppm	ND ppm
Tetrahydrofuran	1 ppm	20 ppm	720 ppm	ND ppm
Methanol	1 ppm	20 ppm	3000 ppm	ND ppm
Acetonitrile	1 ppm	20 ppm	410 ppm	ND ppm
Dichloromethane	1 ppm	20 ppm	600 ppm	ND ppm
Ethyl Acetate	1 ppm	20 ppm	5000 ppm	ND ppm
Chloroform	1 ppm	2 ppm	2 ppm	ND ppm
Cyclohexane	1 ppm	20 ppm	3900 ppm	ND ppm
Benzene	1 ppm	2 ppm	2 ppm	ND ppm
Ethyl Benzene	1 ppm	20 ppm	2200 ppm	ND ppm
m + p Xylenes	1 ppm	20 ppm	2200 ppm	ND ppm
o Xylene	1 ppm	20 ppm	2200 ppm	ND ppm
Total Xylenes	1 ppm	20 ppm	2200 ppm	ND ppm

LOQ = Limit of Quantification; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected  
ppm = Parts Per Million

The values reported pertain only to the product tested.

**ND ppm**  
**Total Solvents**



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**Pesticides** Testing method: LCMS-SOP 0055

Analyte	LOD	LOQ	Mass	Action Level	Analyte	LOD	LOQ	Mass	Action Level
	ppm	ppm		ppm		ppm	ppm		ppm
Methamidophos	0.033	0.1	ND ppm	0.1	Daminozide			Not Tested	1
Acephate	0.1	0.3	ND ppm	0.4	Omethoate	0.05	0.2	ND ppm	0.1
Pymetrozine	0.05	0.2	ND ppm	0.1	Propamocarb	0.04	0.125	ND ppm	0.1
Flonicamid			ND ppm	1	Aldicarb Sulfone	0.05	0.2	ND ppm	0.4
Aminocarb	0.033	0.1	ND ppm	0.1	Nitenpyram	0.05	0.2	ND ppm	0.1
Oxamyl	0.033	0.1	ND ppm	1	Fenuron	0.033	0.1	ND ppm	0.1
Thiamethoxam	0.05	0.2	ND ppm	0.2	3-Hydroxycarbofuran	0.075	0.25	ND ppm	0.2
Mexacarbate	0.033	0.1	ND ppm	0.1	Dimethoate	0.05	0.2	ND ppm	0.2
Clothianidin	0.05	0.15	ND ppm	0.1	Imidacloprid	0.05	0.2	ND ppm	0.4
Dicropthos	0.05	0.15	ND ppm	0.1	Yamidothion	0.033	0.1	ND ppm	0.1
Acetamiprid	0.033	0.1	ND ppm	0.2	Fuberidazole	0.033	0.1	ND ppm	0.1
Pyracarbolid	0.04	0.125	ND ppm	0.1	Propoxur	0.04	0.125	ND ppm	0.2
Carbetamide	0.05	0.15	ND ppm	0.1	Thiophanate-Methyl	0.05	0.15	ND ppm	0.1
Carbofuran	0.05	0.15	ND ppm	0.2	Tricyclazole	0.05	0.15	ND ppm	0.1
Oxadixyl	0.05	0.2	ND ppm	0.1	Ethiofencarb	0.075	0.25	ND ppm	0.1
Thiacloprid	0.05	0.15	ND ppm	0.2	Carboxin	0.05	0.15	ND ppm	0.1
Isoprocarb	0.05	0.2	ND ppm	0.1	Carbaryl	0.05	0.2	ND ppm	0.2
Tebuthiuron	0.04	0.125	ND ppm	0.1	Pirimicarb	0.05	0.15	ND ppm	0.1
Chlorotoluron	0.05	0.2	ND ppm	0.1	Cyfluron	0.05	0.15	ND ppm	0.1
Isoproturon	0.05	0.15	ND ppm	0.1	Fluometuron	0.05	0.2	ND ppm	0.1
Diuron	0.1	0.3	ND ppm	0.1	Chlorantraniliprole	0.075	0.25	ND ppm	0.2
Fenamidone	0.05	0.15	ND ppm	0.1	Methabenzthiazuron	0.05	0.15	ND ppm	0.1
Prometon	0.05	0.15	ND ppm	0.1	Diethofencarb	0.05	0.15	ND ppm	0.1
Methiocarb			ND ppm	0.2	Metalaxyl	0.05	0.15	ND ppm	0.2
Pacllobutrazol	0.05	0.2	ND ppm	0.4	Furalaxyl	0.05	0.15	ND ppm	0.1
Methoprotryne	0.05	0.2	ND ppm	0.1	Azoxystrobin	0.05	0.2	ND ppm	0.2
Mepronil			Not Tested	0.1	Chloroxuron	0.05	0.15	ND ppm	0.1
Flutolanil	0.05	0.2	ND ppm	0.1	Iprovalicarb	0.05	0.2	ND ppm	0.1
Myclobutanil	0.075	0.25	ND ppm	0.2	Mandipropamid	0.05	0.2	ND ppm	0.1
Mefenacet	0.05	0.15	ND ppm	0.1	Imazail	0.1	0.4	ND ppm	0.2
Bifenazate	0.05	0.2	ND ppm	0.2	Fenoxycarb	0.05	0.2	ND ppm	0.2
Dimethomorph	0.05	0.2	ND ppm	0.1	Kresoxym-methyl	0.05	0.15	ND ppm	0.4
Methoxyfenozide	0.05	0.15	ND ppm	0.1	Spiromesifen	0.04	0.125	ND ppm	0.2
Epoxiconazole	0.075	0.25	ND ppm	0.1	Dimoxystrobin	0.05	0.15	ND ppm	0.1
Spirotetramat	0.05	0.2	ND ppm	0.2	Tebufozicide	0.05	0.15	ND ppm	0.1
Tebuconazole	0.05	0.2	ND ppm	0.4	Clofentezine			ND ppm	0.2
Rotenone	0.05	0.2	ND ppm	0.1	Zoxamide	0.05	0.2	ND ppm	0.1
Flufenacet	0.05	0.2	ND ppm	0.1	Picoxystrobin	0.05	0.2	ND ppm	0.1
Carfentrazone-ethyl NH4	0.05	0.2	ND ppm	0.1	Butafenacil	0.05	0.15	ND ppm	0.1
Benalaxyl	0.05	0.15	ND ppm	0.1	Thiobencarb	0.05	0.2	ND ppm	0.1
Cyazofamid	0.05	0.15	ND ppm	0.1	Pyraclostrobin	0.05	0.15	ND ppm	0.1
Furathiocarb	0.05	0.2	ND ppm	0.1	Trifloxystrobin	0.04	0.125	ND ppm	0.2
Pyriproxyfen	0.05	0.15	ND ppm	0.1	Hexythiazox	0.05	0.2	ND ppm	1
Piperonyl Butoxide	0.05	0.15	ND ppm	2	Triflumizole	0.05	0.15	ND ppm	0.1
Propargite	0.04	0.125	ND ppm	0.1	Quinoxifen	0.033	0.1	ND ppm	0.1
Etoxazole	0.05	0.2	ND ppm	0.2	Indoxacarb	0.05	0.2	ND ppm	0.1
Pyrethrin II			ND ppm	1	Pyridaben	0.05	0.2	ND ppm	0.2
Pyrethrin I			ND ppm	1	Fenazaquin	0.05	0.2	ND ppm	0.1
Fenpyroximate	0.04	0.125	ND ppm	0.4	Spinosad A	0.05	0.2	ND ppm	0.2
Spinosad D	0.05	0.2	ND ppm	0.2	Abamectin B1a	0.15	0.45	ND ppm	0.5
Permethrin NH4	0.05	0.2	ND ppm	0.2	Fludioxonil			ND ppm	0.4
Fipronil	0.1	0.3	ND ppm	0.4	Fluazinam	0.075	0.25	ND ppm	0.1
Ethoprophos	0.1	0.4	ND ppm	0.2	Chlorpyrifos	0.075	0.25	ND ppm	0.2
Aldicarb	0.075	0.25	ND ppm	0.1	Bifenthrin	0.05	0.2	ND ppm	0.2
Boscalid			ND ppm	0.1	Diazinon	0.05	0.2	ND ppm	0.1
Etofenprox	0.04	0.125	ND ppm	0.1	Malathion	0.05	0.2	ND ppm	0.1
Methomyl	0.05	0.2	ND ppm	0.1	Monocrotophos			ND ppm	0.1
Phosmet	0.05	0.2	ND ppm	0.1	Spiroxamine	0.05	0.15	ND ppm	0.1
Uniconazole	0.075	0.25	ND ppm	0.1					

LOQ = Limit of Quantification; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected  
ppm = Parts Per Million

The values reported pertain only to the product tested.

**Pass**  
**Pesticides**



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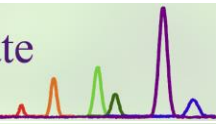
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Paul Matthews, Ph.D.  
Executive Lab Director / Chief Science Officer



Certificate ID: **78407**

Received: **2/27/20**

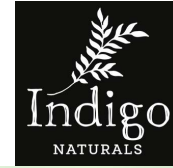
Scan QR Code for authenticity



Client Sample ID: **Q2 2020 Isolate Raw Material**

Lot Number: **190104FE**

Matrix: **Isolates - CBD**



Authorization: Jon Podgorni, Lead Research Chemist	Signature: <i>Jon Podgorni</i>	Date: 3/5/2020
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The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2017. I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

**CN: Cannabinoid Profile & Potency [WI-10-17 & WI-10-17-01]**

Analyst: RAS

Test Date: 3/3/2020

The client sample was analyzed for plant-based cannabinoids by Liquid Chromatography (LC).

**78407-CN**

ID	Weight %	Concentration (mg/g)		
D9-THC	ND	ND		
THCV	ND	ND		
CBD	99.11	991.10		
CBDV	0.22	2.17		
CBG	ND	ND		
CBC	ND	ND		
CBN	ND	ND		
THCA	ND	ND		
CBDA	ND	ND		
CBGA	ND	ND		
D8-THC	ND	ND		
exo-THC	ND	ND		
Total	99.33	993.27	0%	Cannabinoids (wt%) 99.1%
Max THC	ND	ND		
Max CBD	99.11	991.10		

Limit of Quantitation (LOQ) = 0.04 wt%

Due to the unique precision and accuracy demands of assay testing for highly purified materials, samples were prepared in class-A volumetric glassware and quantitated against a single point calibration function. Five replicate injections of cannabidiol (CBD) certified reference standard are averaged to derive the calibration function and verify injection precision less than 2% RSD. For components other than CBD, the relative response factor of the identified component is used for quantitation. Relative response factors are calculated from certified reference standards. Relative percent difference (RPD) of the Laboratory Duplicate for this sample preparation batch was less than 2%. Assay values exceeding 100.00% are scientifically valid and result from the unavoidable accumulation of uncertainty at every stage of sampling and analysis.

**HM: Heavy Metal Analysis [WI-10-13]**

Analyst: CJS

Test Date: 2/28/2020

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

**78407-HM**

Symbol	Metal	Conc. <sup>1</sup> (µg/kg)	RL	Use Limits <sup>2</sup> (µg/kg)		Status
				All	Ingestion	
As	Arsenic	ND	50	200	1500	PASS
Cd	Cadmium	ND	50	200	500	PASS
Hg	Mercury	ND	50	100	1500	PASS
Pb	Lead	ND	50	500	1000	PASS

1) ND = None detected to Lowest Limits of Detection (LLD)

2) MA Dept. of Public Health: Protocol for MMJ and MIPS, Exhibit 4(a) for all products.

3) USP exposure limits based on daily oral dosing of 1g of concentrate for a 110 lb person.

**MB1: Microbiological Contaminants [WI-10-09]**

Analyst: MM

Test Date: 2/28/2020

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

**78407-MB1**

Symbol	Analysis	Results	Units	Limits*	Status
AC	Total Aerobic Bacterial Count	<100	CFU/g	100,000 CFU/g	PASS
CC	Total Coliform Bacterial Count	<100	CFU/g	1,000 CFU/g	PASS
EB	Total Bile Tolerant Gram Negative Count	<100	CFU/g	1,000 CFU/g	PASS
YM	Total Yeast & Mold	<100	CFU/g	10,000 CFU/g	PASS

Recommended limits established by the American Herbal Pharmacopoeia (AHP) monograph for Cannabis Inflorescence [2013], for consumable botanical products, including processed and unprocessed cannabis materials, and solvent-based extracts. Note: All recorded Microbiological tests are within the established limits.

**PST: Pesticide Analysis [WI-10-11]***Analyst: CJR**Test Date: 3/5/2020*

The client sample was analyzed for pesticides using Liquid Chromatography with Mass Spectrometric detection (LC/MS/MS). The method used for sample prep was based on the European method for pesticide analysis (EN 15662).

**78407-PST**

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.2	300	PASS
Azoxystrobin	131860-33-8	ND	ppb	0.10	40000	PASS
Bifenazate	149877-41-8	ND	ppb	0.10	5000	PASS
Bifenthrin	82657-04-3	ND	ppb	0.20	500	PASS
Cyfluthrin	68359-37-5	ND	ppb	0.50	1000	PASS
Daminozide	1596-84-5	ND	ppb	10.00	10	*
Etoxazole	153233-91-1	ND	ppb	0.10	1500	PASS
Fenoxycarb	72490-01-8	ND	ppb	0.10	10	PASS
Imazalil	35554-44-0	ND	ppb	0.10	10	PASS
Imidacloprid	138261-41-3	ND	ppb	0.10	3000	PASS
Myclobutanil	88671-89-0	ND	ppb	0.10	9000	PASS
Paclobutrazol	76738-62-0	ND	ppb	0.10	10	PASS
Piperonyl butoxide	51-03-6	ND	ppb	0.10	8000	PASS
Pyrethrin	8003-34-7	ND	ppb	0.1	1000	PASS
Spinosad	168316-95-8	ND	ppb	0.1	3000	PASS
Spiromesifen	283594-90-1	ND	ppb	0.10	12000	PASS
Spirotetramat	203313-25-1	ND	ppb	0.10	13000	PASS
Trifloxystrobin	141517-21-7	ND	ppb	0.10	30000	PASS

\* Testing limits for ingestion established by the State of California: CCR, Title 16, Division 42, Chapter 5, Section 5313. ND indicates "none detected" above the lower limit of detection (LLD). Analytes marked with (\*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample.

**VC: Analysis of Volatile Organic Compounds [WI-10-28]**

Analyst: JR

Test Date: 2/27/2020

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations.

**78407-VC**

Compound	CAS	Amount <sup>1</sup>	Limit <sup>2</sup>	RL	Status
Propane	74-98-6	ND	1,000 ppm	100	PASS
Isobutane	75-28-5	ND	1,000 ppm	100	PASS
Butane	106-97-8	ND	1,000 ppm	100	PASS
Methanol	67-56-1	ND	3,000 ppm	100	PASS
Pentane	109-66-0	ND	5,000 ppm	100	PASS
Ethanol	64-17-5	ND	5,000 ppm	100	*
Acetone	67-64-1	ND	5,000 ppm	100	PASS
Isopropanol	67-63-0	ND	5,000 ppm	100	PASS
Acetonitrile	75-05-8	ND	410 ppm	100	PASS
Hexane	110-54-3	ND	290 ppm	100	PASS
Heptane	142-82-5	ND	5,000 ppm	100	PASS

1) ND = Not detected at a level greater than the Reporting Limit (RL).

2) In ppm, based on USP recommended limits for residual solvents, adopted by the Massachusetts Department of Public Health for cannabis concentrates and extracts on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

(\*) For ethanol, as many formulations contain flavorings based on ethanol extracts of natural products, no status has been assigned.

**END OF REPORT**