



K N D L A B S

**Certificate of Analysis Documents
Crystalline CBD Isolate
Powder Form**

Product: KND 392

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The Industry Leader in Quality, Certifications and Compliance at Scale.

Prepared for:

Crystalline CBD Isolate

KND LABS

Batch ID or Lot Number: KND 392	Test: Potency	Reported: 8/25/22	Location: 5801 W 6th Ave Unit A LAKEWOOD, CO 80214
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Matrix: Concentrate	Test ID: T000218936	Started: 8/24/22	USDA License: N/A
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Status: Active	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis	Received: 08/23/2022 @ 11:57 AM	Sampler ID: N/A
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CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.162	0.430	ND	ND	N/A
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.183	0.485	ND	ND	
Cannabidiolic acid (CBDA)	0.153	0.515	ND	ND	
Cannabidiol (CBD)	0.149	0.502	101.763	1017.63	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.201	0.535	ND	ND	
Cannabinolic Acid (CBNA)	0.115	0.306	ND	ND	
Cannabinol (CBN)	0.053	0.140	ND	ND	
Cannabigerolic acid (CBGA)	0.169	0.449	ND	ND	
Cannabigerol (CBG)	0.040	0.107	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.143	0.379	ND	ND	
Tetrahydrocannabivarin (THCV)	0.037	0.098	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.064	0.215	ND	ND	
Cannabidivarin (CBDV)	0.035	0.119	0.308	3.08	
Cannabichromenic Acid (CBCA)	0.065	0.173	ND	ND	
Cannabichromene (CBC)	0.071	0.189	ND	ND	
Total Cannabinoids			102.071	1020.71	
Total Potential THC**			ND	ND	
Total Potential CBD**			101.763	1017.63	

Prepared by: *Sam Smith*
Sam Smith
25-Aug-22
4:05 PM

Approved by: *K Winternheimer*
Karen Winternheimer
25-Aug-22
4:07 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa *(0.877)) and

Total CBD = CBD + (CBDa *(0.877))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to SC Laboratories, Inc. SC Laboratories, Inc warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. All decision rulings are in accordance with the MED and results uploaded to METRC. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited A2LA Certificate Number 4329.01



CDPHE Certified



Certificate #4329.02

Prepared for:

Crystalline CBD Isolate

KND LABS

Batch ID or Lot Number: KND 392	Test: Pesticides	Reported: 8/19/22	Location: 5801 W 6th Ave Unit A LAKEWOOD, CO 80214
Matrix: Concentrate	Test ID: T000218278	Started: 8/17/22	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 08/16/2022 @ 11:52 AM	Sampler ID: N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	40	ND	Fenoxycarb	41	ND	Paclobutrazol	42	ND
Acetamiprid	40	ND	Fipronil	40	ND	Permethrin	293	ND
Abamectin	308	ND	Fonicamid	47	ND	Phosmet	39	ND
Azoxystrobin	41	ND	Fludioxonil	257	ND	Prophos	281	ND
Bifenazate	41	ND	Hexythiazox	40	ND	Propoxur	42	ND
Boscalid	39	ND	Imazalil	274	ND	Pyridaben	295	ND
Carbaryl	39	ND	Imidacloprid	41	ND	Spinosad A	30	ND
Carbofuran	43	ND	Kresoxim-methyl	150	ND	Spinosad D	47	ND
Chlorantraniliprole	38	ND	Malathion	270	ND	Spiromesifen	272	ND
Chlorpyrifos	500	ND	Metalaxyl	44	ND	Spirotetramat	265	ND
Clofentezine	289	ND	Methiocarb	38	ND	Spiroxamine 1	17	ND
Diazinon	290	ND	Methomyl	39	ND	Spiroxamine 2	23	ND
Dichlorvos	277	ND	MGK 264 1	159	ND	Tebuconazole	302	ND
Dimethoate	42	ND	MGK 264 2	113	ND	Thiacloprid	42	ND
E-Fenpyroximate	286	ND	Myclobutanil	44	ND	Thiamethoxam	37	ND
Etofenprox	41	ND	Naled	48	ND	Trifloxystrobin	41	ND
Etoxazole	288	ND	Oxamyl	1500	ND			

Samantha Smith
Sam Smith
8/18/2022
2:14:00 PM

K Winterheimer
Karen Winterheimer
8/19/2022
12:39:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification
ppb = Parts per Billion

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Certificate #4329.02

Prepared for:

KND LABS

5801 W 6th Ave Unit A
LAKEWOOD, CO USA 80214

Crystalline CBD Isolate

Batch ID or Lot Number: KND 392	Test: Heavy Metals	Reported: 23Aug2022	USDA License: NA
Matrix: Concentrate	Test ID: T000218279	Started: 22Aug2022	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 16Aug2022	Status: NA

Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.56	ND	
Cadmium	0.04 - 4.44	ND	
Mercury	0.04 - 4.49	ND	
Lead	0.04 - 4.39	ND	

Final Approval



Daniel Weidensaul
24Aug2022
06:50:00 PM MDT

PREPARED BY / DATE



Courtney Richards
24Aug2022
08:09:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/562661ee-49d0-4bd0-bf56-72e326c9917f>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.



Cert #4329.02
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Prepared for:
KND LABS

5801 W 6th Ave Unit A
LAKEWOOD, CO USA 80214

Crystalline CBD Isolate

Batch ID or Lot Number: KND 392	Test: Residual Solvents	Reported: 28Sep2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000222537	Started: 28Sep2022	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 23Sep2022	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	107 - 2132	ND	
Butanes (Isobutane, n-Butane)	222 - 4437	ND	
Methanol	65 - 1298	ND	
Pentane	114 - 2273	961	
Ethanol	97 - 1935	ND	
Acetone	108 - 2161	ND	
Isopropyl Alcohol	95 - 1907	ND	
Hexane	7 - 134	ND	
Ethyl Acetate	106 - 2118	ND	
Benzene	0.2 - 4.1	ND	
Heptanes	109 - 2189	ND	
Toluene	17 - 341	ND	
Xylenes (m,p,o-Xylenes)	112 - 2245	ND	

Final Approval



Karen Winternheimer
28Sep2022
04:03:00 PM MDT

PREPARED BY / DATE



Daniel Weidensaul
28Sep2022
04:05:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/68c59d3a-9966-49c1-b93c-4fa5832cfe93>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.



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Technical Specifications

Product Name: CRYSTALLINE CANNABIDIOL ISOLATE

≥ 98% CBD | ≤ 0.1% THC

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1. Product Data

DESCRIPTION

KND Crystalline Cannabidiol (CBD) Isolate goes through a primary extraction from industrial hemp using approved hydrocarbon solvents, denatured ethyl alcohol, or CO₂. It is then refined into a high-potency isolate. The Industrial Hemp Biomass is sourced from US Growers who have registered with their state's respective Department of Agriculture.

INTENDED USE

Industry specific per customer. Unfinished ingredient requiring further processing.

COUNTRY OF ORIGIN

Made in USA from domestic ingredients

INCOMPATIBILITIES

No known incompatibilities

STANDARD PACKAGING

HDPE Food Grade Plastic - Bucket, Canister, Drum; Aluminum Screw-top Bottle, Metal Tin, Steel Drum

SHELF LIFE

24 months after packaging

STORAGE & HANDLING

Storage Container : Store in original, tightly closed containers under dry conditions at ambient temperature. Do not freeze. Limit exposure to light.

Temperature: Keep at temperatures between 10°C to 23°C.

Once cannabinoids are exposed to air, they may oxidize and darken in color. Cannabinoid powders are highly hygroscopic and may clump when exposed to humidity, causing a decrease in potency. It is recommended to add desiccants to the product after opening to mitigate moisture absorption.

ALLERGEN STATEMENT

Does not contain beef, buckwheat, celery, cereals with gluten, chicken, crustacean shellfish, egg, fish, lupin, mango, milk, molluscan shellfish, mustard, peach, peanut, pork, royal jelly, sesame, soy, tree nuts, tomato, or wheat.

FOOD AND DRUG ADMINISTRATION DISCLOSURE

These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.

WARNING STATEMENT

Not recommended for children, pregnant, or nursing women. If taking medication, consult a physician before use. Keep out of the reach of children.

CALIFORNIA PROPOSITION 65

May contain exposures to delta-9- Tetrahydrocannabinol (Δ9 THC) which is known to the State of California to cause birth defects or other reproductive harm. KND Labs tests for Δ9 THC and though its presence may not be detected or may be minimal, a warning is required because limitations of exposure are not defined.

2. Specifications - General Information

APPEARANCE

White crystalline powder

FLAVOR

No significant flavor

ODOR

No significant odor

CONSISTENCY

Fine-coarse powdered crystal

SOLUBILITY

Oil

COMPOSITION

100% Hemp extract by weight

PLANT PARTS USED IN OIL

Stalk, stem, flower

Know your CBD Source. Buy Direct from the Manufacturer.



Technical Specifications

Product Name: CRYSTALLINE CANNABIDIOL ISOLATE

≥ 98% CBD | ≤ 0.1% THC

3. Composition/Ingredient Information

APPROVED TESTING LABS

The following third party labs have been approved to test KND products based on a track record of quality and regulatory compliance:

- Botanacor dba SC Labs
- DB Labs
- Eurofins

If the listed labs are not used for the finished product, KND recommends that the ingredient is tested at the desired non KND approved lab to calibrate the finished product results.

NOTE:

¹ Unfinished hemp products are only required to test for potency per 6 CCR 1010-21.7 (F) Colorado Wholesale Food, Industrial Hemp, and Shellfish Regulations. All other contaminants are not required for compliance testing. Additional testing may be arranged. Please contact a KND representative. For more information, visit <https://cdphe.colorado.gov/hemp-food>.

CANNABINOID CONTENT	%	METHOD(S)
CBD	≥ 98.0	HPLC applications LCMS LCUV
THC	≤ 0.1	
CBDA	Reportable	
CBDV	Reportable	
CBN	Reportable	
CBG	Reportable	

CANNABIDIOL INFORMATION	
INCI Name	Cannabidiol
CAS-No	13956-29-1
Molecular Weight (g/mol)	314.46
Chemical Formula	C ₂₁ H ₃₀ O ₂

OTHER	LIMIT	METHOD(S)
HEAVY METALS	See Note ¹	ICP-MS ; MS-MS
PESTICIDES	See Note ¹	GC applications; HPLC applications ; LCMS applications
MICROBIOLOGICAL	See Note ¹	Microarray ; PCR ; qPCR ; Petrifilm ; VIDAS
RESIDUAL SOLVENTS	See Note ¹	GC applications

Know your CBD Source. Buy Direct from the Manufacturer.