



K N D L A B S

**Certificate of Analysis Documents
KND Labs Full Spectrum Distillate (Raw)**

Product: KND23-642

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

Prepared for:
KND LABS LLC

KND Labs Full Spectrum Distillate (Raw)

Batch ID or Lot Number: KND23-642	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 5
Reported: 13Mar2023	Started: 02Mar2023	Received: 09Mar2023	

Cannabinoids - Colorado Compliance


Test ID: T000238


Methods: TM14 (HPLC-DAD): Potency - Full Spectrum

Analysis, 0.3% THC

	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.054	0.164	3.835	38.35	
Cannabichromenic Acid (CBCA)	0.049	0.150	ND	ND	
Cannabidiol (CBD)	0.154	0.460	83.956	839.56	
Cannabidiolic Acid (CBDA)	0.158	0.472	ND	ND	
Cannabidivarin (CBDV)	0.036	0.109	1.199	11.99	
Cannabidivarinic Acid (CBDVA)	0.066	0.197	ND	ND	
Cannabigerol (CBG)	0.031	0.093	6.456	64.56	
Cannabigerolic Acid (CBGA)	0.128	0.389	ND	ND	
Cannabinol (CBN)	0.040	0.121	0.224	2.24	
Cannabinolic Acid (CBNA)	0.088	0.265	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.153	0.464	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.003	0.008	3.409	34.09	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.002	0.007	ND	ND	
Tetrahydrocannabivarin (THCV)	0.028	0.085	<LOQ	<LOQ	
Tetrahydrocannabivarinic Acid (THCVA)	0.108	0.329	ND	ND	
Total Cannabinoids			99.079	990.79	
Total Potential THC			3.409	34.09	
Total Potential CBD			83.956	839.56	

Final Approval


Sam Smith
15Mar2023
06:32:00 PM MDT
PREPARED BY / DATE


Karen Winternheimer
15Mar2023
06:36:00 PM MDT
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Prepared for:
KND LABS LLC

KND Labs Full Spectrum Distillate (Raw)

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Reported: 13Mar2023	Started: 02Mar2023	Received: 09Mar2023	

Microbial Contaminants - Colorado Compliance

Test ID: T000238
Methods: TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval


 Eden Thompson-Wright 13Mar2023 03:55:00 PM MDT	 Brett Hudson 14Mar2023 06:04:00 PM MDT
PREPARED BY / DATE	APPROVED BY / DATE

Heavy Metals - Colorado Compliance

Test ID: T000238
Methods: TM19 (ICP-MS): Heavy Metals

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.37	ND	
Cadmium	0.04 - 4.41	ND	
Mercury	0.04 - 4.03	ND	
Lead	0.04 - 4.32	ND	

Final Approval

 Sam Smith 14Mar2023 02:41:00 PM MDT	 Karen Winternheimer 14Mar2023 02:44:00 PM MDT
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KND Labs Full Spectrum Distillate (Raw)


Batch ID or Lot Number: KND23-642	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 5
Reported: 13Mar2023	Started: 02Mar2023	Received: 09Mar2023	

**Residual Solvents -
Colorado Compliance**


Test ID: T000238
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	87 - 1747	ND	
Butanes (Isobutane, n-Butane)	174 - 3479	ND	
Methanol	54 - 1082	ND	
Pentane	90 - 1810	ND	
Ethanol	92 - 1838	ND	
Acetone	91 - 1824	ND	
Isopropyl Alcohol	95 - 1891	ND	
Hexane	5 - 107	ND	
Ethyl Acetate	91 - 1815	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	93 - 1854	ND	
Toluene	16 - 327	ND	
Xylenes (m,p,o-Xylenes)	122 - 2441	ND	

Final Approval


Sam Smith
14Mar2023
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Karen Winternheimer
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Prepared for:
KND LABS LLC

KND Labs Full Spectrum Distillate (Raw)


Batch ID or Lot Number: KND23-642	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 5
Reported: 13Mar2023	Started: 02Mar2023	Received: 09Mar2023	


Mycotoxins - Colorado Compliance

Test ID: T000238
Methods: TM18 (UHPLC-QQQ)
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.95 - 135.73	ND	N/A
Aflatoxin B1	0.95 - 33.41	ND	
Aflatoxin B2	1.05 - 33.38	ND	
Aflatoxin G1	1.02 - 33.28	ND	
Aflatoxin G2	1.17 - 33.60	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam Smith
16Mar2023
07:42:00 AM MDT
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Karen Winternheimer
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Prepared for:
KND LABS LLC

KND Labs Full Spectrum Distillate (Raw)

Batch ID or Lot Number: KND23-642	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 5 of 5
Reported: 13Mar2023	Started: 02Mar2023	Received: 09Mar2023	


Pesticides


Test ID: T000238

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	346 - 2771	ND		Malathion	302 - 2721	ND
Acephate	43 - 2762	ND		Metalaxyl	47 - 2729	ND
Acetamiprid	42 - 2731	ND		Methiocarb	44 - 2780	ND
Azoxystrobin	45 - 2755	ND		Methomyl	41 - 2736	ND
Bifenazate	47 - 2752	ND		MGK 264 1	168 - 1665	ND
Boscalid	40 - 2797	ND		MGK 264 2	119 - 1123	ND
Carbaryl	43 - 2752	ND		Myclobutanil	51 - 2791	ND
Carbofuran	43 - 2748	ND		Naled	48 - 2751	ND
Chlorantraniliprole	44 - 2821	ND		Oxamyl	42 - 2737	ND
Chlorpyrifos	46 - 2751	ND		Paclobutrazol	43 - 2747	ND
Clofentezine	279 - 2777	ND		Permethrin	273 - 2805	ND
Diazinon	280 - 2744	ND		Phosmet	41 - 2737	ND
Dichlorvos	242 - 2766	ND		Prophos	306 - 2757	ND
Dimethoate	43 - 2719	ND		Propoxur	44 - 2744	ND
E-Fenpyroximate	285 - 2726	ND		Pyridaben	298 - 2741	ND
Etofenprox	45 - 2804	ND		Spinosad A	34 - 2266	ND
Etoazole	296 - 2715	ND		Spinosad D	51 - 495	ND
Fenoxycarb	44 - 2760	ND		Spiromesifen	287 - 2712	ND
Fipronil	50 - 2786	ND		Spirotetramat	273 - 2768	ND
Flonicamid	54 - 2797	ND		Spiroxamine 1	18 - 1190	ND
Fludioxonil	321 - 2737	ND		Spiroxamine 2	25 - 1568	ND
Hexythiazox	42 - 2718	ND		Tebuconazole	295 - 2754	ND
Imazalil	293 - 2758	ND		Thiacloprid	42 - 2730	ND
Imidacloprid	47 - 2711	ND		Thiamethoxam	43 - 2729	ND
Kresoxim-methyl	23 - 2792	ND		Trifloxystrobin	44 - 2761	ND

Final Approval


 Karen Winternheimer
 17Mar2023
 07:43:00 AM MDT
 PREPARED BY / DATE


 Sam Smith
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Technical Specifications

Product Name: FULL SPECTRUM RAW DISTILLATE

≥ 40% CBD | ≤ 5.0% THC

The Industry Leader in Certifications & Compliance



1. Product Data

DESCRIPTION

KND Full Spectrum Raw Distillate 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 distillate. 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, Jerrican, F-Style Jug, Drum; Aluminum Screw-top Bottle, Glass Screw-top Bottle, 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.

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

Light to amber gold oil

FLAVOR

Natural terpene flavor, earthy

ODOR

Natural terpene odor, earthy

CONSISTENCY

Distillate oil. May be partially or fully crystallized. Must heat to homogenize prior to mixing

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: FULL SPECTRUM RAW DISTILLATE

≥ 40% CBD | ≤ 5.0% 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	≥ 40	HPLC applications LCMS LCUV
THC	≤ 5.0	
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.