



K N D L A B S

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

Product: FSO23-R-644

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



Certificate of Analysis

Compliance Test

Client Information:

KND Labs LLC
5801 W 6th Ave Unit A
Lakewood, CO 80214

Batch # FS024-R-644
Batch Date: 2024-01-22
Extracted From: 104346

Test Reg State: Florida

Production Facility: Cloud Co Farms
Production Date: 2024-01-22

Order # CLO240122-010001
Order Date: 2024-01-22
Sample # AAF693

Sampling Date: 2024-02-01
Lab Batch Date: 2024-02-01
Completion Date: 2024-02-13

Initial Gross Weight: 80.116 g



Water Activity

Specimen Weight: 0.500 g

Dilution Factor: 1.000

Analyte	Action Level (aw)	Result (aw)
Water Activity	0.85	0.357

Tested

SOP13.016 (Water Activity Analyzer)



Total Yeast and Mold

Specimen Weight: 477.300 mg

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result (cfu/g)	Remark
Total Yeast/Mold	100000	<LOQ	Passed

Passed

SOP13.017 (qPCR)



Microbiology (Petrifilm/Plating) - CO

Specimen Weight: 993.800 mg

Dilution Factor: 1.000

Analyte	LOQ (cfu/g)	Action Level (cfu/g)	Result (cfu/g)	Analyte	LOQ (cfu/g)	Action Level (cfu/g)	Result (cfu/g)
Aerobic Bacteria	10	10000	<10	Yeast/Mold	10	1000	<10
Total Coliform	10	100	<10				

Passed

SOP13.003 (Petrifilm)



Pathogenic Microbiology SAE (MicroArray) - CO

Specimen Weight: 25.023 g

Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	Aspergillus terreus	Absence in 1g
Aspergillus fumigatus	Absence in 1g	Salmonella	Absence in 25g
Aspergillus niger	Absence in 1g	STEC E. Coli	Absence in 25g

Passed

SOP13.019 (Micro Array)

Aixa Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions are found on page 1

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Mycotoxins - CO

Specimen Weight: 592.700 mg

Passed

SOP14.003 (LCMS)

Dilution Factor: 2.530

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	3.7250E-1	2.5	5	<LOQ	Ochratoxin A	1.8997E-1	3.5	5	<LOQ
Aflatoxin Total		2.5	20	<LOQ					



Heavy Metals

Specimen Weight: 247.200 mg

Passed

SOP13.048 (ICP-MS)

Dilution Factor: 202

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	4.83	100	1500	<LOQ	Lead (Pb)	11.76	100	500	<LOQ
Cadmium (Cd)	.64	100	500	<LOQ	Mercury (Hg)	.58	100	3000	<LOQ



Residual Solvents - FL

Specimen Weight: 318.200 mg

Passed

SOP13.039 (GCMS)

Dilution Factor: 500.000

Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.0094	0.132	8	<LOQ	Heptane	0.0013	8	500	<LOQ
1,2-Dichloroethane	0.0003	0.032	2	<LOQ	Isopropyl alcohol	0.0048	8	500	<LOQ
Acetonitrile	0.06	0.96	60	<LOQ	Methylene chloride	0.0029	2	125	<LOQ
Butanes	0.4167	13.32	2000	<LOQ	Propane	0.031	26.668	2100	<LOQ
Ethyl Acetate	0.0012	6.4	400	<LOQ	Total Xylenes	0.0001	7.2	150	<LOQ
Ethyl Ether	0.0049	8	500	<LOQ	Trichloroethylene	0.0014	0.4	25	<LOQ
Ethylene Oxide	0.0038	0.32	5	<LOQ					

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Test Reg State: Florida

Production Facility: Cloud Co Farms
Production Date: 2024-01-22

Order # CLO240122-010001
Order Date: 2024-01-22
Sample # AAFF693

Sampling Date: 2024-02-01
Lab Batch Date: 2024-02-01
Completion Date: 2024-02-13

Initial Gross Weight: 80.116 g



Residual Solvents UT

Specimen Weight: 50.200 mg

Passed

SOP13.056 (GCMS)

Dilution Factor: 1.000

Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,2 Dimethoxyethane	0.004	6.4	100	<LOQ	Ethyl Ether	0.0004	8	5000	<LOQ
1,4 Dioxane	0.0022	8	380	<LOQ	Ethylbenzene	0.0002	6.4	1000	<LOQ
1-Butanol	0.0103	6.4	5000	<LOQ	Ethylene glycol	0.0013	6.4	620	<LOQ
1-Pentanol	0.0103	0.32	5000	<LOQ	Ethylene Oxide	0.149	0.32	50	<LOQ
1-Propanol	0.0003	8	5000	<LOQ	Heptane	0.0022	8	5000	<LOQ
2,2-dimethylbutane	0.0016	12	290	<LOQ	Isopropyl acetate	0.0012	8	5000	<LOQ
2,3-dimethylbutane	0.0011	26.668	290	<LOQ	Isopropyl alcohol	0.111	6.4	5000	<LOQ
2-Butanol	0.0002	8	5000	<LOQ	Methanol	0.0021	4	3000	<LOQ
2-Ethoxyethanol	0.0013	4	160	<LOQ	Methylene chloride	0.0006	0.8	600	<LOQ
2-methylbutane	0.0108	2	5000	<LOQ	Methylpropane	0.0366	2	5000	<LOQ
2-Methylpentane	0.0005	6.4	290	<LOQ	N,N-dimethylacetamide	0.0229	6.4	1090	<LOQ
3-Methylpentane	0.0003	2.4	290	<LOQ	N,N-dimethylformamide	0.005	0.132	880	<LOQ
Acetone	0.0009	12	5000	<LOQ	n-Hexane	0.0008	0.8	290	<LOQ
Acetonitrile	0.0011	0.96	410	<LOQ	Pentane	0.0167	12	5000	<LOQ
Benzene	0.0003	0.016	2	<LOQ	Propane	0.0849	26.668	5000	<LOQ
Butane	0.0028	13.32	5000	<LOQ	Pyridine	0.0014	6.4	100	<LOQ
Cumene	0.0002	0.032	70	<LOQ	Sulfolane	0.0518	6.4	160	<LOQ
Cyclohexane	0.0024	0.032	3880	<LOQ	Tetrahydrofuran	0.0006	6.4	720	<LOQ
Dimethyl sulfoxide	0.001	6.4	5000	<LOQ	Toluene	0.0003	2.4	890	<LOQ
Ethanol	0.0044	16	NA	<LOQ	Total Xylenes	0.0002	7.2	1000	<LOQ
Ethyl Acetate	0.0017	6.4	5000	<LOQ					

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Pesticides - CO

Specimen Weight: 592.700 mg

Passed
SOP14.003 (LCMS/GCMS)

Dilution Factor: 2.530

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	0.000318	250	250	<LOQ	Dodemorph	0.00000000000647	50	0	<LOQ	Naled	0.00000585	100	0	
Acephate	0.039632	50	50	<LOQ	Endosulfan sulfate	0.88376	2500	2500	<LOQ	Novaluron	0.000205	25	25	
Acequinocyl	0.057646	30	0	<LOQ	Endosulfan-alpha	12.22	2500	2500	<LOQ	Oxamyl	0.001619	1500	1500	
Acetamiprid	0.000000000338	50	50	<LOQ	Endosulfan-beta	22.76	2500	2500	<LOQ	Paclobutrazol	0.000000693	10	10	
Aldicarb	0.022744	500	500	<LOQ	Ethoprophos	0.0000159	10	10	<LOQ	Pentachloronitrobenzen(Quintozene)	4.39	20	0	
Allethrin	0.472436	100	100	<LOQ	Etofenprox	0.008305	50	0	<LOQ	Permethrin	0.022089	500	0	
Atrazine	0.379918	25	0	<LOQ	Etoxazole	0.835582	20	0	<LOQ	Phenothrin	0.000000212	50	0	
Azadirachtin	0.003071	500	500	<LOQ	Etridiazole	4.02	150	150	<LOQ	Phosmet	0.009615	20	0	
Azoxystrobin	0.013247	10	10	<LOQ	Fenhexamid	1.094685	125	0	<LOQ	Piperonylbutoxide	0.000000134	1250	1250	
Benzovindiflupyr	0.012567	10	10	<LOQ	Fenoxycarb	0.345072	10	10	<LOQ	Pirimicarb	0.0000566	10	10	
Bifenazate	0.0000000217	10	10	<LOQ	Fenpyroximate	0.000000448	20	0	<LOQ	Prallethrin	0.167321	50	0	
Bifenthrin	0.000842	1000	0	<LOQ	Fensulfotioin	0.000794	10	10	<LOQ	Propiconazole	0.0000000000000213	10	0	
Boscalid	0.00000433	10	10	<LOQ	Fenthion	4.911315	10	10	<LOQ	Propoxur	0.350807	10	10	
Buprofezin	0.00000000166	20	0	<LOQ	Fenvalerate	0.597752	100	0	<LOQ	Pyraclostrobin	0.000000531	10	10	
Carbaryl	0.0000138	25	25	<LOQ	Fipronil	0.028847	10	10	<LOQ	Pyrethrins	0.006235	50	0	
Carbofuran	0.0000776	10	10	<LOQ	Flonicamid	0.069733	25	25	<LOQ	Pyridaben	0.00000000000000875	20	20	
Chlorantraniliprole	0.135592	20	0	<LOQ	Fludioxonil	0.013402	10	10	<LOQ	Pyriproxyfen	0.0000958	10	0	
Chlorfenapyr	15.37	1500	1500	<LOQ	Fluopyram	0.00000000112	10	10	<LOQ	Resmethrin	0.068013	50	50	
Chlorpyrifos	0.0000909	500	500	<LOQ	Hexythiazox	0.0000619	10	0	<LOQ	Spinetoram	0.023645	10	10	
Clofentezine	0.000000371	10	10	<LOQ	Imazalil	0.000295	10	10	<LOQ	Spinosad	0.599029	10	10	
Clothianidin	0.000399	25	25	<LOQ	Imidacloprid	0.000153	10	10	<LOQ	Spirodiclofen	03737699.6	250	0	
Coumaphos	0.0000986	10	10	<LOQ	Iprodione	0.105543	500	500	<LOQ	Spiromesifen	0.321831	3000	0	
Cyantraniliprole	0.006004	10	10	<LOQ	Kinoprene	3.4	500	1250	<LOQ	Spirotetramat	0.04276	10	10	
Cyfluthrin	28.13	200	0	<LOQ	Kresoxim Methyl	0.000145	150	150	<LOQ	Spiroxamine	1.217217	100	0	
Cypermethrin	0.00000119	300	0	<LOQ	Lambda	0.116859	250	0	<LOQ	Tebuconazole	0.00000000000000148	10	10	
Cyprodinil	0.001141	10	10	<LOQ	Cyhalothrin	0.000133	10	10	<LOQ	Tebufenozide	0.018121	10	10	
Daminozide	0.30408	100	0	<LOQ	Malathion	0.000486	10	10	<LOQ	Teflubenzuron	0.01662	25	25	
Deltamethrin	0.492837	500	0	<LOQ	Metalaxyl	0.002281	10	10	<LOQ	Tetrachlorvinphos	0.839125	10	10	
Diazinon	0.000000000391	20	0	<LOQ	Methiocarb	0.0000115	25	25	<LOQ	Tetramethrin	0.0000992	100	0	
Dichlorvos	1.140571	50	50	<LOQ	Methomyl	1.148463	2000	0	<LOQ	Thiabendazole	0.001251	20	0	
Dimethoate	0.00000284	10	10	<LOQ	Methoprene	4.24	50	0	<LOQ	Thiacloprid	0.0000112	10	10	
Dimethomorph	0.000157	50	0	<LOQ	methyl-Parathion	0.0000442	25	25	<LOQ	Thiamethoxam	0.00000225	10	10	
Dinotefuran	0.236975	50	50	<LOQ	MGK-264	0.002588	50	0	<LOQ	Thiophanate-methyl	0.000223	50	0	
Diuron	0.006862	125	0	<LOQ	Myclobutanil	0.700059	10	10	<LOQ	Trifloxystrobin	0.0000000000000217	10	10	

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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.