



K N D L A B S

Certificate of Analysis Documents
KND Labs FreeFlow™ Broad Spectrum Distillate

Product: KNDFFBFSO23-002

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



Certificate of Analysis
Compliance Test

Client Information:

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

Batch # KNDFBFS023-002 Test Reg State: Florida
Batch Date: 2023-03-28
Extracted From: Industrial Hemp

Order Date: 2023-03-28
Sample # AAEH081
Statement of Amendment: Updated Batch#

Sampling Date: 2023-03-29
Lab Batch Date: 2023-03-29
Initial Gross Weight: 29.882 g
Orig. Completion Date: 2023-04-03



Potency Tested



Heavy Metals Passed



Mycotoxins Passed



Pesticides Passed



Residual Solvents Passed



Pathogenic Microbiology Passed



Microbiology Petrifilm Passed

Potency 23 + CBE
Specimen Weight: 56.500 mg

Tested
SOP13.002 (LCUV)

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	Result (%)
CBD	5.40E-5	0.0015	556.4000	55.6400
CBE	4.83E-5	0.002	80.5900	8.0590
CBT	2.00E-4	0.0015	31.2900	3.1290
CBC	1.80E-5	0.0015	24.7800	2.4780
CBG	2.48E-4	0.0015	21.0100	2.1010
CBN	1.40E-5	0.0015	20.8100	2.0810
CBDV	6.50E-5	0.0015	6.5210	0.6521
CBL	3.50E-5	0.0015	4.8780	0.4878
CBGA	8.00E-5	0.0015	1.0300	0.1030
CBCA	1.07E-4	0.0015	<LOQ	<LOQ
CBDA	1.00E-5	0.0015	<LOQ	<LOQ
CBDVA	1.40E-5	0.0015	<LOQ	<LOQ
CBNA	9.50E-5	0.0015	<LOQ	<LOQ
Delta-8 THC	2.60E-5	0.0015	<LOQ	<LOQ
Delta-8 THC-O Acetate	2.70E-5	0.003	<LOQ	<LOQ
Delta-8 THCV	4.00E-5	0.0015	<LOQ	<LOQ
Delta-9 THC	1.30E-5	0.0015	<LOQ	<LOQ
Delta-9 THC-O Acetate	7.70E-5	0.003	<LOQ	<LOQ
Delta8-THCP*	3.75E-4	0.0015	<LOQ	<LOQ
Delta9-THCP*	1.17E-5	0.0012	<LOQ	<LOQ
Exo-THC	2.30E-4	0.0015	<LOQ	<LOQ
THCA-A	3.20E-5	0.0015	<LOQ	<LOQ
THCV	7.00E-6	0.0015	<LOQ	<LOQ
THCVA	4.70E-5	0.0015	<LOQ	<LOQ
Total Active CBD			556.400	55.640
Total Active THC			<LOQ	<LOQ

Potency Summary

Total Active THC None Detected	Total Active CBD 55.640%
Total CBG 2.191%	Total CBN 2.081%
Other Cannabinoids 14.806%	Total Cannabinoids 74.718%

Mycotoxins
Specimen Weight: 257.140 mg
Dilution Factor: 5.830

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	3.0400E-1	6	20	<LOQ	Aflatoxin G2	2.7100E-1	6	20	<LOQ
Aflatoxin B2	7.7000E-2	6	20	<LOQ	Ochratoxin A	7.5400E-1	3.8	20	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ					

Passed
SOP13.007 (LCMS)

Pathogenic Microbiology - SE (MicroArray)
Specimen Weight: 1025.720 mg
Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Salmonella	Absence in 1g	STEC E. Coli	Absence in 1g

Passed
SOP13.019 (Micro Array)

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

Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBDV * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.877) + CBG, CBN Total = (CBNA * 0.877) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta8-THC + Delta8-THC + Total CBN + CBT + CBE + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate + Total THCP, (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram, Passed - Analyte/microbe is non-detected or at the level below the action limit, Failed - Analyte/microbe is at the level that equal or above the action limit, *Measurement of Uncertainty = +/- 10% Revised report- see statement of amendment above.

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Lab Batch Date: 2023-03-29
Orig. Completion Date: 2023-04-03

Pesticides
Specimen Weight: 257.140 mg
Dilution Factor: 5.830

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	2.8800E-1	28.23	100	<LOQ	Fludioxonil	1.7400E+0	48	100	<LOQ
Acephate	2.3000E-2	30	100	<LOQ	Hexythiazox	4.9000E-2	30	100	<LOQ
Acequinocyl	9.5640E+0	48	100	<LOQ	Imazalil	2.4800E-1	30	100	<LOQ
Acetamiprid	5.2000E-2	30	100	<LOQ	Imidacloprid	9.4000E-2	30	400	<LOQ
Aldicarb	2.6000E-2	30	100	<LOQ	Kresoxim Methyl	4.2000E-2	30	100	<LOQ
Azoxystrobin	8.1000E-2	10	100	<LOQ	Malathion	8.2000E-2	30	200	<LOQ
Bifenazate	1.4150E+0	30	100	<LOQ	Metaxyl	8.1000E-2	10	100	<LOQ
Bifenthrin	4.3000E-2	30	100	<LOQ	Methiocarb	3.2000E-2	30	100	<LOQ
Boscalid	5.5000E-2	10	100	<LOQ	Methomyl	2.2000E-2	30	100	<LOQ
Captan	6.1200E+0	30	700	<LOQ	methyl-Parathion	1.7100E+0	10	100	<LOQ
Carbaryl	2.2000E-2	10	500	<LOQ	Mevinphos	2.1500E+0	10	100	<LOQ
Carbofuran	3.4000E-2	10	100	<LOQ	Myclobutanil	1.0290E+0	30	100	<LOQ
Chlorantraniliprole	3.3000E-2	10	1000	<LOQ	Naled	9.5000E-2	30	250	<LOQ
Chlordane	1.0000E+1	10	100	<LOQ	Oxamyl	2.5000E-2	30	500	<LOQ
Chlorfenapyr	3.4000E-2	30	100	<LOQ	Paclobutrazol	6.5000E-2	30	100	<LOQ
Chlormequat Chloride	1.0800E-1	10	1000	<LOQ	Pentachloronitrobenzene	1.3200E+0	10	150	<LOQ
Chlorpyrifos	3.5000E-2	30	100	<LOQ	Permethrin	3.4300E-1	30	100	<LOQ
Clofentezine	1.1900E-1	30	200	<LOQ	Phosmet	8.2000E-2	30	100	<LOQ
Coumaphos	3.7700E+0	48	100	<LOQ	Piperonylbutoxide	2.9000E-2	30	3000	<LOQ
Cyfluthrin	3.1100E+0	30	500	<LOQ	Prallethrin	7.9800E-1	30	100	<LOQ
Cypermethrin	1.4490E+0	30	500	<LOQ	Propiconazole	7.0000E-2	30	100	<LOQ
Daminozide	8.8500E-1	30	100	<LOQ	Propoxur	4.6000E-2	30	100	<LOQ
Diazinon	4.4000E-2	30	100	<LOQ	Pyrethrins	2.3593E+1	30	500	<LOQ
Dichlorvos	2.1820E+0	30	100	<LOQ	Pyridaben	3.2000E-2	30	200	<LOQ
Dimethoate	2.1000E-2	30	100	<LOQ	Spinetoram	8.0000E-2	10	200	<LOQ
Dimethomorph	5.8300E+0	48	200	<LOQ	Spinosad	8.8000E-2	30	100	<LOQ
Ethoprophos	3.6000E-1	30	100	<LOQ	Spiromesifen	2.6100E-1	30	100	<LOQ
Etofenprox	1.1600E-1	30	100	<LOQ	Spirotetramat	8.9000E-2	30	100	<LOQ
Etoxazole	9.5000E-2	30	100	<LOQ	Spiroxamine	1.3100E-1	30	100	<LOQ
Fenhexamid	5.1000E-1	10	100	<LOQ	Tebuconazole	6.7000E-2	30	100	<LOQ
Fenoxycarb	1.0700E-1	30	100	<LOQ	Thiacloprid	6.4000E-2	30	100	<LOQ
Fenpyroximate	1.3800E-1	30	100	<LOQ	Thiamethoxam	5.0000E-2	30	500	<LOQ
Fipronil	1.0700E-1	30	100	<LOQ	Trifloxystrobin	3.7000E-2	30	100	<LOQ
Fonicamid	5.1700E-1	30	100	<LOQ					

Passed
SOP13.007
(LCMS/GCMS)

Microbiology (Petrifilm)
Specimen Weight: 999.400 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	1000	<10	Yeast/Mold	10	100	<10

Passed
SOP13.003
(Petrifilm)

Heavy Metals
Specimen Weight: 250.750 mg
Dilution Factor: 199

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

Passed
SOP13.048 (ICP-MS)

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

Definitions are found on page 1

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Extracted From: Industrial Hemp

Test Reg State: Florida

Order Date: 2023-03-28
Sample # AAEH081

Sampling Date: 2023-03-29
Lab Batch Date: 2023-03-29
Orig. Completion Date: 2023-04-03

Initial Gross Weight: 29.882 g



Residual Solvents - FL (CBD)
Specimen Weight: 310.300 mg

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	0.16	8	ND	Heptane	0.0013	1.39	5000	ND
1,2-Dichloroethane	0.0003	0.04	5	ND	Hexane	0.068	1.17	290	ND
Acetone	0.015	2.08	5000	ND	Isopropyl alcohol	0.0048	1.39	500	ND
Acetonitrile	0.06	1.17	410	ND	Methanol	0.0005	0.69	3000	ND
Benzene	0.0002	0.02	2	ND	Methylene chloride	0.0029	2.43	600	ND
Butanes	0.4167	2.5	2000	ND	Pentane	0.037	2.08	5000	ND
Chloroform	0.0001	0.04	60	ND	Propane	0.031	5.83	2100	ND
Ethanol	0.0021	2.78	5000	ND	Toluene	0.0009	2.92	890	ND
Ethyl Acetate	0.0012	1.11	5000	ND	Total Xylenes	0.0001	2.92	2170	ND
Ethyl Ether	0.0049	1.39	5000	ND	Trichloroethylene	0.0014	0.49	80	ND
Ethylene Oxide	0.0038	0.1	5	ND					

Passed

SOP13.039 (GCMS)

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

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Technical Specifications

Product Name: CRYSTAL RESISTANT BROAD SPECTRUM DISTILLATE

≥ 40% CBD | ≤ 0.1% THC

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1. Product Data

DESCRIPTION

KND Crystal Resistant Broad Spectrum CBD 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 and modified to resist crystal formation. 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

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, Dropper Bottle, Steel Drum

SHELF LIFE

18 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.

2. Specifications - General Information

APPEARANCE

Amber gold oil

FLAVOR

Natural terpene flavor, earthy

ODOR

Natural terpene odor, earthy

CONSISTENCY

Low viscosity oil

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.

SALES@KNDLABS.COM | KNDLABS.COM | 1-833-KND-4-CBD



Technical Specifications

Product Name: CRYSTAL RESISTANT BROAD SPECTRUM DISTILLATE

≥ 40% CBD | ≤ 0.1% THC

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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
- Cannasafe
- DB Labs
- Eurofins

CANNABINOID CONTENT	%
CBD	≥ 40
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

HEAVY METALS	PPB
Arsenic	< 1500
Cadmium	< 500
Lead	< 500
Mercury	< 1500

RESIDUAL SOLVENTS	PPM
Acetone	< 1000
Benzene	< 2
Butanes	< 1000
Ethanol	< 1000
Ethyl Acetate	< 1000
Hexane	< 60
Heptanes	< 1000
Isopropyl Alcohol	< 1000
Methanol	< 600
Pentane	< 1000
Propane	< 1000
Toluene	< 180
Total Xylenes	< 430

PESTICIDES	See Note ¹
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NOTE:

¹ Unfinished hemp products are tested to be compliant with 6 CCR 1010-21.7 (F) Colorado Wholesale Food, Industrial Hemp, and Shellfish Regulations permissible level of contaminants. For more information, contact a KND representative or visit <https://cdphe.colorado.gov/hemp-food>.

Know your CBD Source. Buy Direct from the Manufacturer.