



K N D L A B S

KND Labs Good Vibrations 5-1

Lot: GV KYG 002

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This product is only available to pre-qualified formulators as it is “work in progress product” and must be brought to Industrial Hemp Farm Bill compliant levels prior to use.

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

KND Labs Good Vibrations 5-1

Sample ID: 2206CSALA0687.8164

Matrix: Concentrates & Extracts

Type: Other

Sample Size: 1 units

Batch Size: 10 grams

Batch#: GV KYG 002

Produced: 06/07/2022

Collected: 06/08/2022

Received: 06/08/2022

Completed: 06/10/2022

Client

KND Labs

Lic. #

5801 W 6th Ave Unit A

Lakewood, CO 80214



Summary

Pass

40.9034% Total Cannabinoids	Pass Pesticides	Pass Residual Solvents
Not Tested Microbials	Not Tested Mycotoxins	Pass Heavy Metals

Cannabinoids

Pass

Testing method: HPLC-SOP 101

Analyte	LOD	LOQ	Results	Results
	mg/g	mg/g	mg/g	%
CBD	0.175	0.25	250.1438	25.0144
CBC	0.213	0.25	57.6390	5.7639
Δ9-THC	0.207	0.25	45.3620	4.5362
CBT	0.21	0.975	34.8077	3.4808
CBG	0.229	0.25	13.2337	1.3234
CBDV	0.204	0.25	4.8222	0.4822
CBN	0.245	0.25	2.5776	0.2578
THCV	0.242	0.25	0.4476	0.0448
CBCA	0.221	0.25	ND	ND
CBDa	0.133	0.25	ND	ND
CBDVA	0.238	0.25	ND	ND
CBGa	0.187	0.25	ND	ND
THCa	0.184	0.25	ND	ND
THCVA	0.243	0.25	ND	ND
Δ8-THC	0.22	0.25	ND	ND

4.5362%

Total THC

25.0144%

Total CBD

45.362 mg/g Total THC; 250.1438 mg/g Total CBD;

Date Tested: 06/08/2022

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa * 0.877 + CBD

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

Terpenes

Complete

Testing method: HS-GC-FID - SOP 201

Analyte	LOD	LOQ	Results	Results
	mg/g	mg/g	mg/g	%
α-Bisabolol	0.01	0.02	0.7885	0.0789
Guaiol	0.01	0.02	0.3795	0.0380
Caryophyllene Oxide	0.01	0.02	0.1953	0.0195
β-Caryophyllene	0.01	0.02	0.0960	0.0096
trans-Nerolidol	0.003	0.01	0.0772	0.0077
α-Humulene	0.01	0.02	0.0555	0.0055
β-Myrcene	0.01	0.02	ND	ND
Camphene	0.01	0.02	ND	ND
Eucalyptol	0.01	0.02	ND	ND
Geraniol	0.005	0.02	ND	ND
Isopulegol	0.01	0.02	ND	ND
Linalool	0.005	0.02	ND	ND
Ocimene	0.004	0.01	ND	ND
p-Cymene	0.01	0.02	ND	ND
Terpinolene	0.01	0.02	ND	ND
α-Pinene	0.01	0.02	ND	ND
α-Terpinene	0.01	0.02	ND	ND
β-Pinene	0.01	0.02	ND	ND
γ-Terpinene	0.01	0.02	ND	ND
δ-3-Carene	0.01	0.02	ND	ND
δ-Limonene	0.01	0.02	ND	ND
Total			1.5920	0.1592

Date Tested: 06/08/2022

NT Moisture Moisture Analyzer SOP-103	NT Water Activity Water Activity Meter SOP-102	NT Foreign Matter Visual Inspection SOP-600
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LABORATORY
Accreditation No. 73653

Ini Afia
Chief Science Officer
06/10/2022

Neya Jourabchian
COA Review
06/10/2022

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Pesticides

Pass

Testing method: LCMS & GCMS-SOP 301 and 302

Analyte	LOD	LOQ	Limit	Results	Status	Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.037	0.068	0.1	ND	Pass	Fludioxonil	0.05	0.078	0.1	ND	Pass
Acephate	0.035	0.078	0.1	ND	Pass	Hexythiazox	0.041	0.078	0.1	ND	Pass
Acequinocyl	0.033	0.078	0.1	ND	Pass	Imazalil *	0.047	0.078	0.047	ND	Pass
Acetamiprid	0.034	0.078	0.1	ND	Pass	Imidacloprid	0.033	0.078	5	ND	Pass
Aldicarb *	0.032	0.078	0.032	ND	Pass	Kresoxim Methyl	0.033	0.078	0.1	ND	Pass
Azoxystrobin	0.033	0.078	0.1	ND	Pass	Malathion	0.05	0.078	0.5	ND	Pass
Bifenazate	0.069	0.078	0.1	ND	Pass	Metalaxyl	0.036	0.078	2	ND	Pass
Bifenthrin	0.067	0.078	3	ND	Pass	Methiocarb *	0.05	0.078	0.05	ND	Pass
Boscalid	0.045	0.078	0.1	ND	Pass	Methomyl	0.04	0.078	1	ND	Pass
Captan	0.53	0.625	0.7	ND	Pass	Methyl Parathion *	0.052	0.078	0.052	ND	Pass
Carbaryl	0.04	0.078	0.5	ND	Pass	Mevinphos *	0.034	0.078	0.034	ND	Pass
Carbofuran *	0.034	0.078	0.034	ND	Pass	Myclobutanil	0.062	0.078	0.1	ND	Pass
Chlorantraniliprole	0.033	0.078	10	ND	Pass	Naled	0.052	0.078	0.1	ND	Pass
Chlordane *	0.067	0.078	0.067	ND	Pass	Oxamyl	0.033	0.078	0.5	ND	Pass
Chlorfenapyr *	0.067	0.078	0.067	ND	Pass	Paclobutrazol *	0.062	0.078	0.062	ND	Pass
Chlorpyrifos *	0.033	0.078	0.033	ND	Pass	Pentachloronitrobenzene	0.071	0.078	0.1	ND	Pass
Clofentezine	0.047	0.078	0.1	ND	Pass	Permethrin	0.05	0.078	0.5	ND	Pass
Coumaphos *	0.041	0.078	0.041	ND	Pass	Phosmet	0.033	0.078	0.1	ND	Pass
Cyfluthrin	0.148	0.156	2	ND	Pass	Piperonyl Butoxide	0.039	0.078	3	ND	Pass
Cypermethrin	0.079	0.156	1	ND	Pass	Prallethrin	0.041	0.078	0.1	ND	Pass
Daminozide *	0.043	0.078	0.043	ND	Pass	Propiconazole	0.04	0.078	0.1	ND	Pass
DDVP *	0.037	0.078	0.037	ND	Pass	Propoxur *	0.041	0.078	0.041	ND	Pass
Diazinon	0.031	0.078	0.1	ND	Pass	Pyrethrins	0.188	0.22	0.5	ND	Pass
Dimethoate *	0.028	0.078	0.028	ND	Pass	Pyridaben	0.059	0.078	0.1	ND	Pass
Dimethomorph	0.033	0.078	2	ND	Pass	Spinetoram	0.042	0.078	0.1	ND	Pass
Ethoprophos *	0.029	0.078	0.029	ND	Pass	Spinosad	0.038	0.079	0.1	ND	Pass
Etofenprox *	0.038	0.078	0.038	ND	Pass	Spiromesifen	0.038	0.078	0.1	ND	Pass
Etoxazole	0.034	0.078	0.1	ND	Pass	Spirotetramat	0.031	0.078	0.1	ND	Pass
Fenhexamid	0.072	0.078	0.1	ND	Pass	Spiroxamine *	0.031	0.078	0.031	ND	Pass
Fenoxycarb *	0.028	0.078	0.028	ND	Pass	Tebuconazole	0.034	0.078	0.1	ND	Pass
Fenpyroximate	0.025	0.078	0.1	ND	Pass	Thiacloprid *	0.033	0.078	0.033	ND	Pass
Fipronil *	0.057	0.078	0.057	ND	Pass	Thiamethoxam	0.039	0.078	5	ND	Pass
Fonicamid	0.043	0.078	0.1	ND	Pass	Trifloxystrobin	0.039	0.078	0.1	ND	Pass

Date Tested: 06/08/2022

* Denotes Category I pesticides, which fail when detected; LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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Lakewood, CO 80214

Heavy Metals

Pass

Testing method: ICPMS-SOP 502

Analyte	LOD	LOQ	Limit	Results	Status
Arsenic	0.005	0.05	0.2	<LOQ	Pass
Cadmium	0.003	0.05	0.2	ND	Pass
Lead	0.01	0.05	0.5	<LOQ	Pass
Mercury	0.002	0.05	0.1	ND	Pass

Date Tested: 06/09/2022

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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Lakewood, CO 80214

Residual Solvents

Pass

Testing method: HSGCMS-SOP 202

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloroethane	0.08	1.0	1	ND	Pass
Acetone	9.19	50.0	5000	ND	Pass
Acetonitrile	17.49	58.35	410	ND	Pass
Benzene	0.09	1.0	1	ND	Pass
Butane	35.32	117.8	5000	ND	Pass
Chloroform	0.21	1.0	1	ND	Pass
Ethanol	14.96	50.0	5000	<LOQ	Pass
Ethyl acetate	12.8	50.0	5000	ND	Pass
Ethylene Oxide	0.3	1.0	1	ND	Pass
Ethyl ether	16.0	53.36	5000	ND	Pass
Heptane	42.11	140.48	5000	ND	Pass
Isopropyl alcohol	19.79	66.02	5000	ND	Pass
Methanol	149.0	497.01	3000	ND	Pass
Methylene chloride	0.11	1.0	1	ND	Pass
Hexane	33.99	113.37	290	ND	Pass
Pentane	28.08	93.67	5000	ND	Pass
Propane	42.44	141.57	5000	ND	Pass
Toluene	23.99	80.03	890	ND	Pass
Trichloroethylene	0.06	1.0	1	ND	Pass
Total xylenes	65.49	218.45	2170	ND	Pass

Date Tested: 06/08/2022

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 Chief Science Officer
 06/10/2022

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Technical Specifications

Product Name: FULL SPECTRUM DISTILLATE - 5:1

≥ 20 CBD | ≤ 5.0% THC

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1. Product Data

DESCRIPTION

This distillate is a hemp extract that has a concentration of CBD and THC at a 5 to 1 ratio. 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 (Δ^9 THC) which is known to the State of California to cause birth defects or other reproductive harm. KND Labs tests for Δ^9 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 DISTILLATE - 5:1
≥ 20 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
- Cannasafe
- 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	≥ 20	HPLC applications LCMS LCUV
THC	≤ 5.0	
CBDA	Reportable	
CBDV	Reportable	
CBN	Reportable	
CBC	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.



K N D L A B S

Homogenizing Blended Oils

How to properly homogenize your blended oils and incorporate into your products

Due to change in temperatures, shipping, storage time it is important to follow the practices below prior to going into manufacturing:

- Ensure the oil is at room temperature and that it has been agitated prior to introducing it with the manufacturing batch.
- **For blended oils that are between 25 and 50% active CBD** - heat up to 90°F and ensure agitation has occurred for two hours prior to introducing into manufacturing.

For further documentation on Distillates, CBD and manufacturing best practices, see corresponding pages.

Thank you for your business!

KND Labs, LLC

Know your CBD Source. Buy Direct from the Manufacturer.



KND LABS

Homogenizing Distillate

How to homogenize distillate and incorporate it into your products

Please Note:

- Because our distillate contains high amounts of CBD, it has a tendency to crystallize. When this occurs, pockets of cannabinoids and terpenes will exist in the package. To ensure that the distillate is dosed and formulated properly into your product, the entire container must be homogenized (melted). This is imperative if the container is partially used. After the distillate has melted, stir the distillate to fully homogenize.
- Excess heat (160°F) will result in terpene loss via evaporation
- Extreme heat (320°F) will result in cannabinoid evaporation and breakdown
- If you intend on heating at these temperatures please contact us so we can help safeguard the integrity of our distillates with additional techniques.
- Clean in-house containers with food grade ethanol and water to reduce any contamination of the distillate
- When distillate is transferred to a new container, there will be residual distillate remaining in the original container. Make sure to accommodate for the loss prior to formulating

Distillate can be packaged and shipped from KND in a variety of containers:

- Borosilicate Glass (Scientific Grade)
- PTFE Plastic Containers (Food Grade)
- Stainless Steel (Food Grade)

Each of these containers can be homogenized in a variety of ways to accommodate your heating setup.

Hot Water Bath:

Place the container with the lid closed in a pot with hot water and maintain heat. This will take the longest amount of time but will be the gentlest on the distillate. This will require occasional shaking and rolling depending on the quantity of distillate in the container.

Oven:

If your distillate is shipped via stainless steel or Borosilicate Glass you can place the container with the lid on in an oven and set temp to 150°F. The product will melt quickly inside and the containers are rated for high heat including the plastic lid on the glass jar. Because most of our products crystallize and remain solid, we have had success cutting away the plastic containers with an exacto knife and placing the material in an oven-safe container. If you have a vacuum oven, you can pull a deep vacuum and reduce the temp needed to melt.

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Microwave:

Our preferred method for reheating in-house is by using short bursts in a microwave. The microwaves are able to penetrate to the center of the container and quickly melt the distillate without it overheating. Microwave with the lid on to prevent terpenes from escaping during the heating process.

Hot Plates:

Similar to the oven method you can remove the plastic container by using an exacto knife or scissors. The distillate can be covered in the pot/pan of your choosing and reheated efficiently if only a portion of the contents are needed. You can also loosen the edges of the distillate in the container by using a hot water bath or microwave and pouring the contents into your pot/pan.

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