

Dossiê técnico CBD 98%

Certificados, análises laboratoriais e documentação técnica do insumo.



Certificado de Análise Completo

- Teor de Pureza para Canabinoides (19)
- Resultado: CBD 99,3%, THC: não detectável. Aprovado

Company Name: KND Labs LLC

Sample Name: KND Labs CBD Isolate - Powder Form

Sample Batch: KND24-398

Sample Type: Concentrate

Test Type: Potency

Nordic ID: 666719-Potency

Date Received: 10/21/2024

Date Tested: 10/23/2024

Date Approved: 10/23/2024

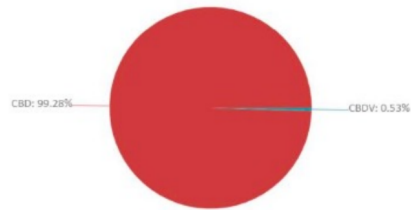
License Number: CDPHE: HMP24722

METRC Tag: 1A4000B0001A6AA000001574

Seal State: Intact

Potency Report

Cannabinoid	% Weight	mg/g
D-9 THC	ND	ND
D-9 THCA	ND	ND
EXO-THC	ND	ND
CBD	99.28%	992.80
CBD-A	ND	ND
CBN	ND	ND
CBNA	ND	ND
D-8 THC	ND	ND
D-10 THC	ND	ND
CBG	ND	ND
CBGA	ND	ND
CBC	ND	ND
CBCA	ND	ND
THCV	ND	ND
THCVA	ND	ND
CBDV	0.53%	5.30
CBDVA	ND	ND
Total	99.81%	998.10
Total THC	N/A	N/A
Total CBD	99.28%	992.80



ND = Non-Detect | NR = Non-Reportable Value | Potency testing is performed by Liquid Chromatography

Total THC and CBD values are calculated using the following equations: **Total THC** = [D-8 THC]+[D-9 THC]+[D-10 THC]+[EXO-THC]+([D-9 THCA] x 0.877) | **Total CBD** = [CBD]+([CBD-A] x 0.877)

Laboratory Notes: N/A

SOP Reference: Nordic SOP 005-001 (sample prep), Nordic SOP 005-002 (analysis), Nordic SOP 005-005 (moisture content-where applicable)

Regulatory Reference: N/A

Lab Information:

Nordic Analytical Laboratories
3960 Grape Street, Denver,
CO 80207
www.nordicanalytic.com

Aleksey Nikolayev, PhD, Lab Director

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Certificado de Análise Completo

- Resíduo de Solventes (13)
- Resultado: não detectável para 12 solventes. Heptano abaixo do limite aceitável. Aprovado.

Company Name: KND Labs LLC

Sample Name: KND Labs CBD Isolate - Powder Form

Sample Batch: KND24-398

Sample Type: Concentrate

Test Type: Residual Solvents (RSA)

Nordic ID: 666719-Residual Solvents (RSA)

Date Received: 10/21/2024

Date Tested: 10/23/2024

Date Approved: 10/23/2024

License Number: CDPHE: HMP24722

METRC Tag: 1A4000B0001A6AA000001574

Seal State: Intact

Residual Solvent Analysis Results

Solvent	Result(ppm)	Limit(ppm)	Pass/Fail
Butanes	ND	< 1000	PASS
Propane	ND	< 1000	PASS
Methanol	ND	< 600	PASS
Pentane	ND	< 1000	PASS
Ethanol	ND	< 1000	PASS
Acetone	ND	< 1000	PASS
Isopropyl Alcohol	ND	< 1000	PASS
Hexane	ND	< 60	PASS
Ethyl Acetate	ND	< 1000	PASS
Benzene	ND	< 2	PASS
Heptane	72.74	< 1000	PASS
Toluene	ND	< 180	PASS
Xylenes	ND	< 430	PASS

ND = Non-Detect

NR = Non-Reportable Value

Residual Solvent Analysis is performed by Headspace Gas Chromatography with a Flame Ionization Detector.

Laboratory Notes: N/A

SOP Reference: Nordic SOP 005-003
Regulatory Reference: Pass/Fail criteria are based on 1 CCR 212-3, Part 4-115 (D:3)

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Certificado de Análise Completo

- Micotoxinas (5)
- Resultado: não detectável. Aprovado.

Company Name: KND Labs LLC
Sample Name: KND Labs CBD Isolate - Powder Form
Sample Batch: KND24-398
Sample Type: Concentrate
Test Type: Mycotoxins
Nordic ID: 666719-Mycotoxins

Date Received: 10/21/2024
Date Tested: 10/23/2024
Date Approved: 10/23/2024
License Number: CDPHE: HMP24722
METRC Tag: 1A4000B0001A6AA000001574
Seal State: Intact

Mycotoxins Screening Results

Mycotoxon	Result (ppb)	Limit (ppb)	Pass/Fail
Aflatoxin B1	ND	20	PASS
Aflatoxin B2	ND	20	PASS
Aflatoxin G1	ND	20	PASS
Aflatoxin G2	ND	20	PASS
Total Aflatoxins	ND	20	PASS
Ochratoxin A	ND	20	PASS

Mycotoxin testing is performed using LC/MS/MS
ppb (parts per billion) = nanogram/gram
ND = Non-Detect
NR = Non-Reportable Value

Laboratory Notes: N/A

SOP Reference: Nordic SOP 005-010 (sample prep), Nordic SOP 005-011 (analysis)
Regulatory Reference: Pass/Fail criteria are based on 1 CCR 212-3, Part 4-115 (D:2)

Lab Information:
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Certificado de Análise Completo

- Microbiológico (7)
- Resultado: um não detectável, seis ausentes. Aprovado.

Company Name: KIND Labs LLC

Sample Name: KIND Labs CBD Isolate - Powder Form

Sample Batch: KIND24-398

Sample Type: Concentrate

Test Type: Microbial Contaminant

Nordic ID: 666719-Microbial Contaminant

Date Received: 10/21/2024

Date Tested: 10/25/2024

Date Approved: 10/25/2024

License Number: CDPHE: HMP24722

METRC Tag: 1A4000B0001A6AA000001574

Seal State: Intact

Microbial Analysis Results

Test	CFU/gram Count	Limit(CFU/gram)	Pass/Fail
STEC*	Absent	< 1	PASS
Salmonella*	Absent	< 1	PASS
Total Yeast & Mold**	ND	< 10000	PASS
A. Niger*	Absent	< 1	PASS
A. Fumigatus*	Absent	< 1	PASS
A. Flavus*	Absent	< 1	PASS
A. Terreus*	Absent	< 1	PASS

ND = Not Detected

CFU = Colony Forming Unit

STEC = Shiga Toxin-producing E. Coli

*Testing is performed using PCR

**Testing is performed using plating techniques

Laboratory Notes: N/A

SOP Reference: Nordic SOP 004-002, 004-003, 004-015
Regulatory Reference: Pass/Fail criteria are based on 1 CCR 212-3, Part 4-115 (D:1)

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Certificado de Análise Completo

- Pesticidas (99)
- Resultado: Não detectável. Aprovado.

Company Name: KND Labs LLC

Sample Name: KND Labs CBD Isolate - Powder Form

Sample Batch: KND24-398

Sample Type: Concentrate

Test Type: Pesticides 2024

Nordic ID: 666719-Pesticides 2024

Date Received: 10/21/2024

Date Tested: 10/23/2024

Date Approved: 10/23/2024

License Number: CDPHE: HMP24722

METRC Tag: 1A4000B0001A6AA000001574

Seal State: Intact

Pesticide Screening Results (Page 1 of 4)

No.	Pesticide	Result (ppb)	Limit (ppb)	Pass/Fail
1	Abamectins (B1a & B1b)	ND	100	PASS
2	Acephate	ND	20	PASS
3	Acequinocyl	ND	30	PASS
4	Acetamiprid	ND	100	PASS
5	Aldicarb	ND	1000	PASS
6	Allethrin	ND	200	PASS
7	Atrazine	ND	25	PASS
8	Azoxystrobin	ND	20	PASS
9	Benzovindiflupyr	ND	20	PASS
10	Bifenazate	ND	20	PASS
11	Bifenthrin	ND	1000	PASS
12	Boscalid	ND	20	PASS
13	Buprofezin	ND	20	PASS
14	Carbaryl	ND	50	PASS
15	Carbofuran	ND	20	PASS
16	Chlorantraniliprole	ND	20	PASS
17	Chlorphenapyr	ND	50	PASS
18	Chlorpyrifos	ND	40	PASS
19	Clofentezine	ND	20	PASS
20	Clothianidin	ND	50	PASS
21	Coumaphos	ND	20	PASS
22	Cyantraniliprole	ND	20	PASS
23	Cyfluthrin	ND	200	PASS
24	Cypermethrin	ND	300	PASS
25	Cyprodinil	ND	250	PASS
26	Daminozide	ND	100	PASS
27	Deltamethrin	ND	500	PASS
28	Diazinon	ND	20	PASS
29	Dichlorvos	ND	100	PASS
30	Dimethoate	ND	20	PASS
31	Dimethomorph	ND	50	PASS
32	Dinotefuran	ND	100	PASS
33	Diuron	ND	125	PASS
34	Dodemorph	ND	50	PASS
35	Endosulfan Sulfate	ND	50	PASS

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Pesticide testing is performed using LC/MS/MS ppb (parts per billion) = nanogram/gram

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Certificado de Análise Completo

- Pesticidas (99)
- Resultado: Não detectável. Aprovado.

Company Name: KND Labs LLC
Sample Name: KND Labs CBD Isolate - Powder Form
Sample Batch: KND24-398
Sample Type: Concentrate
Test Type: Pesticides 2024
Nordic ID: 666719-Pesticides 2024

Date Received: 10/21/2024
Date Tested: 10/23/2024
Date Approved: 10/23/2024
License Number: CDPHE: HMP24722
METRC Tag: 1A4000B0001A6AA000001574
Seal State: Intact

Pesticide Screening Results (Page 2 of 4)

No.	Pesticide	Result (ppb)	Limit (ppb)	Pass/Fail
36	Endosulfan-alpha	ND	200	PASS
37	Endosulfan-beta	ND	50	PASS
38	Ethoprophos	ND	20	PASS
39	Etofenprox	ND	50	PASS
40	Etozazole	ND	20	PASS
41	Etridiazole	ND	30	PASS
42	Fenhexamid	ND	125	PASS
43	Fenoxycarb	ND	20	PASS
44	Fenpyroximate	ND	20	PASS
45	Fensulfothion	ND	20	PASS
46	Fenthion	ND	20	PASS
47	Fenvalerate	ND	100	PASS
48	Fipronil	ND	60	PASS
49	Fonicamid	ND	50	PASS
50	Fludioxonil	ND	20	PASS
51	Fluopyram	ND	20	PASS
52	Hexythiazox	ND	10	PASS
53	Imazalil	ND	50	PASS
54	Imidacloprid	ND	20	PASS
55	Iprodione	ND	1000	PASS
56	Kinoprene	ND	500	PASS
57	Kresoxim-methyl	ND	20	PASS
58	Lambda-Cyhalothrin	ND	250	PASS
59	Malathion	ND	20	PASS
60	Metalaxyl	ND	20	PASS
61	Methiocarb	ND	20	PASS
62	Methomyl	ND	50	PASS
63	Methoprene	ND	2000	PASS
64	Mevinphos	ND	50	PASS
65	MGK-264	ND	50	PASS
66	Myclobutanil	ND	20	PASS
67	Naled	ND	100	PASS
68	Novaluron	ND	50	PASS
69	Oxamyl	ND	3000	PASS
70	Paclobutrazol	ND	20	PASS

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- Resultado: Não detectável. Aprovado.

Company Name: KND Labs LLC

Sample Name: KND Labs CBD Isolate - Powder Form

Sample Batch: KND24-398

Sample Type: Concentrate

Test Type: Pesticidas 2024

Nordic ID: 666719-Pesticidas 2024

Date Received: 10/21/2024

Date Tested: 10/23/2024

Date Approved: 10/23/2024

License Number: CDPHE: HMP24722

METRC Tag: 1A4000B0001A6AA000001574

Seal State: Intact

Pesticide Screening Results (Page 3 of 4)

No.	Pesticide	Result (ppb)	Limit (ppb)	Pass/Fail
71	Parathion-methyl	ND	50	PASS
72	Permethrins	ND	500	PASS
73	Phenothrin	ND	50	PASS
74	Phosmet	ND	20	PASS
75	Pirimicarb	ND	20	PASS
76	Prallethrin	ND	50	PASS
77	Propiconazole	ND	100	PASS
78	Propoxur	ND	20	PASS
79	Pyraclostrobin	ND	20	PASS
80	Pyridaben	ND	50	PASS
81	Pyriproxyfen	ND	10	PASS
82	Quintozene	ND	20	PASS
83	Resmethrin	ND	100	PASS
84	Spinetoram	ND	20	PASS
85	Spinosads	ND	100	PASS
86	Spirodiclofen	ND	250	PASS
87	Spiromesifen	ND	3000	PASS
88	Spirotetramat	ND	20	PASS
89	Spiroxamine	ND	100	PASS
90	Tebuconazole	ND	50	PASS
91	Tebufenozide	ND	20	PASS
92	Teflubenzuron	ND	50	PASS
93	Tetrachlorvinphos	ND	20	PASS
94	Tetramethrin	ND	100	PASS
95	Thiabendazole	ND	20	PASS
96	Thiacloprid	ND	20	PASS
97	Thiamethoxam	ND	20	PASS
98	Thiophanate-methyl	ND	50	PASS
99	Trifloxystrobin	ND	20	PASS

ND = Non-Detect
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Pesticide testing is performed using LC/MS/MS ppb (parts per billion) = nanogram/gram

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Certificado de Análise Completo

- Pesticidas (99)
- Resultado: Não detectável. Aprovado.

Company Name: KND Labs LLC	Date Received: 10/21/2024
Sample Name: KND Labs CBD Isolate - Powder Form	Date Tested: 10/23/2024
Sample Batch: KND24-398	Date Approved: 10/23/2024
Sample Type: Concentrate	License Number: CDPHE: HMP24722
Test Type: Pesticides 2024	METRC Tag: 1A4000B0001A6AA000001574
Nordic ID: 666719-Pesticides 2024	Seal State: Intact

Pesticide Screening Results (Page 4 of 4)

Laboratory Notes: N/A

SOP Reference: Nordic SOP 005-008 (sample prep), Nordic SOP 005-009 (analysis)
Regulatory Reference: Pass/Fail criteria are based on 1 CCR 212-3, Part 4-115 (D:5c)

Lab Information:
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Certificados, análises laboratoriais e documentação técnica do insumo.



Certificado de Análise Completo

- Metais Pesados (4)
- Resultado: Não detectável. Aprovado.

Company Name: KND Labs LLC

Sample Name: KND Labs CBD Isolate - Powder Form

Sample Batch: KND24-398

Sample Type: Concentrate

Test Type: Heavy Metals

Nordic ID: 666719-Heavy Metals

Date Received: 10/21/2024

Date Tested: 10/24/2024

Date Approved: 10/24/2024

License Number: CDPHE: HMP24722

METRC Tag: 1A4000B0001A6AA000001574

Seal State: Intact

Heavy Metals Report

Metal	Result (ppm)	Limit (ppm)	Pass/Fail
Arsenic (As)	ND	0.2	PASS
Cadmium (Cd)	ND	0.2	PASS
Mercury (Hg)	ND	0.1	PASS
Lead (Pb)	ND	0.5	PASS

ND = Non-Detect

NR = Non-Reportable Value

Laboratory Notes: N/A

SOP Reference: Nordic Analytical SOP: 005-012

Regulatory Reference: Pass/Fail criteria are based on 1 CCR 212-3, Part 4-115 (D:4)

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Certificado de Análise Completo

- Metodologias e laboratórios utilizados

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.

CANNABINOID CONTENT	%	METHOD(S)
CBD	≥ 98.0	HPLC applications LCMS LCUV
THC	≤ 0.2	
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

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Estudos de Estabilidade Acelerada

- Metodologias e laboratórios utilizados

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CANNABINOID CONTENT	%	METHOD(S)
CBD	≥ 98.0	HPLC applications LCMS LCUV
THC	≤ 0.2	
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