



IS003 CoA

Document Number: COA-119

Approval Date:
12 Aug 2024

Version Number: 2.0

Page 1 of 6

CERTIFICATE OF ANALYSIS (CoA)

PRODUCT IDENTIFICATION	
Item Number/Spec Number	IS003 / SPEC-API-0001
Batch Number	VH240043
Sample ID	4633, 1228155, RS24-0097
Manufactured Date	03JUL2024
Retest Date	03JUL2026
Description	Vantage Hemp CBD Isolate from the <i>Cannabis sativa</i> L. plant.
Supplier	Vantage Hemp Co.

Final Product Specification Conformance Summary	
Specification	Results
Physical Properties:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass for processing ONLY
Cannabidiol Identification	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass for processing ONLY
Cannabidiol Assay:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass for processing ONLY
Related Compounds:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass for processing ONLY
Microbials:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass for processing ONLY
Water Content:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass for processing ONLY
Loss on Drying	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass for processing ONLY
Total Sulfated Ash	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass for processing ONLY
Mycotoxins:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass for processing ONLY
Residual Solvents:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass for processing ONLY
Elemental Impurities:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass for processing ONLY
Pesticides:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass for processing ONLY
Approved for:	<input checked="" type="checkbox"/> Inventory (processing and/or distribution) <input type="checkbox"/> Processing ONLY <input type="checkbox"/> Rejected / Out of Specification see UDEV#: _____
Comments:	<input checked="" type="checkbox"/> N/A

**IS003 CoA**

Document Number: COA-119

Approval Date:
12 Aug 2024

Version Number: 2.0

Page 2 of 6

PHYSICAL PROPERTIES**Method: SOP-QC-013/T-054 (Visual)/ Ph. EUR 07/2024:3151**

Characteristic	Specifications	Results
Appearance	white to pale yellow powder	White

CANNABIDIOL IDENTIFICATION per Ph. Eur 07/2024:3151

Characteristic	Method	Specification	Results
Specific optical rotation	Alcami / cEP	- 135.0 to - 128.0 (anhydrous substance).	-129.7
Infrared absorption spectrophotometer	Vantage Hemp / SOP-QC-014	Comparison: cannabidiol	Cannabidiol (CBD) Match
Identification by Retention Time Match	Triverity/ T-074	Retention time of main peak in chromatogram corresponds to the retention time of main peak in reference standard.	Conforms
Identification by UV Spectra Match	Triverity/ T-074	UV spectra of main peak in sample matches UV spectra of main peak in reference standard.	Conforms

CANNABIDIOL ASSAY**Method: T-074 (HPLC-DAD) / Ph. Eur 07/2024:3151**

Characteristic	Specification (% w/w)	Results (%w/w)
CBD Cannabidiol	98.0 – 102.0 (calculated on the anhydrous basis)	99.50

LOSS ON DRYING**METHOD: Alcami / TP82353.01**

Characteristic	Specification (%)	Results (%)
Loss on drying	< 0.5%	0.1

RELATED COMPOUNDS
Method: T-074 / (HPLC-DAD) / Ph. Eur 07/2024:3151

Impurity EP reference	Substance	Limit (%)	Results (%)
A	Cannabidivarin (CBDV)	<0.80%	0.259
B	Cannabidibutol (CBDB)	<0.50%	0.131
C	Cannabinol (CBN)	<0.15%	ND
D	Δ^9 - tetrahydrocannabinol	<0.10%	ND
E	Cannabidiol Hydroxyquinone (CBDHQ)	<0.15%	<0.05
F	Cannabichromene (CBC)	<0.10%	<0.05
G	Cannabidiocol (CBDO)	<0.15%	<0.05
n/a	Highest Unspecified impurity	<0.10%	<0.05
n/a	Total Impurities	<1.5%	0.390

MICROBIALS
METHOD : PH EUR 2.6.12 / 2.6.13

Substance	Specification	Results
Total Aerobic Microbial Count (TAMC)	< 10 ² cfu/g	<10cfu/g
Total Yeast and Mould Count (TYMC)	< 10 ¹ cfu/g	<10cfu/g
Bile-tolerant Gram negative bacteria	Negative/ 1g	Negative/10g
Salmonella	Negative/ 10g	Negative/10g
Escherichia coli	Negative/ 1g	Negative/10g
Pseudomonas aeruginosa	Negative/ 1g	Negative/10g
Staphylococcus aureus	Negative/ 1g	Negative/10g

WATER CONTENT
Method: T-053.001 USP<921> / Ph. Eur 07/2024:3151 / method 1 C equals Ph Eur 2.5.32

Characteristic	Specification (% w/w)	Results (%w/w)
Water (% w/w)	≤ 0.2	<0.1



IS003 CoA

Document Number: COA-119

Approval Date:
12 Aug 2024

Version Number: 2.0

Page 4 of 6

TOTAL SULFATED ASH

METHOD: Ph Eur 2.4.16 / Ph. Eur 07/2024:3151 / Ph Eur 2.4.14

SUBSTANCE:	SPECIFICATION (%):	Results (%)
Ash	<0.1% in 1.0g	<0.01

MYCOTOXIN PANEL

METHOD: Ph Eur 2.8.18 / Ph Eur 2.8.22

SUBSTANCE:	SPECIFICATION (µg/kg):	Results (µg/kg)
Aflatoxins (total of B1, B2, G1, and G2)	≤ 4 µg/kg	ND
Aflatoxin B1	≤ 1 µg/kg	ND
Ochratoxin A	≤ 1 µg/kg	ND

RESIDUAL SOLVENT PANEL

METHOD: Ph. Eur 2.4.24 (GC/MS)

Substance	Specification (ppm)	Results (ppm)
n-Butane	< 5000	ND
Methanol	< 3000	ND
Pentane	< 5000	<LOQ
Propane	< 5000	ND

ELEMENTAL IMPURITIES

METHOD: Ph 2.4.27

Substance	Specification (ppm)	Results (ppm)
Arsenic	< 0.2	ND
Cadmium	< 0.2	ND
Lead	< 0.5	ND
Mercury	< 0.1	ND

PESTICIDE PANEL
METHOD : Ph. Eur 2.8.13.

SUBSTANCE	LIMIT (MG/KG)	Results
Alachlor	0.02	ND
Aldrin and Dieldrin (sum of)	0.05	ND
Azinphos-methyl	1.0	ND
Bromopropylate	3.0	ND
Chlordane (sum of cis-, trans - and Oxythlordane)	0.05	ND
Chlorfenvinphos	0.5	ND
Chlorpyrifos	0.2	ND
Chlorpyrifos-methyl	0.1	ND
Cypermethrin (and isomers)	1.0	ND
DDT (sum of p,p'-DDT, o,p'-DDT, p,p'-DDE and p,p'-TDE)	1.0	ND
Deltamethrin	0.5	ND
Diazinon	0.5	ND
Dichlorvos	1.0	ND
Dithiocarbamates (as CS ₂)	2.0	ND
Endosulfan (sum of isomers and Endosulfan sulphate)	3.0	ND
Endrin	0.05	ND
Ethion	2.0	ND
Fenitrothion	0.5	ND
Fenvalerate	1.5	ND
Fonofos	0.05	ND
Heptachlor (sum of Heptachlor and Heptachlorepoxyde)	0.05	ND
Hexachlorobenzene	0.1	ND
Hexachlorocyclohexane isomers (other than α)	0.3	ND
Lindane (γ -Hexachlorocyclohexane)	0.6	ND
Malathion	1.0	ND
Methodathion	0.2	ND
Parathion	0.5	ND
Parathion-methyl	0.2	ND
Permethrin	1.0	ND
Phosalone	0.1	ND
Piperonyl butoxide	3.0	ND
Pirimiphos-methyl	4.0	ND
Pyrethrins (sum of)	3.0	ND
Quintozene (sum of quintozene, pentachloroaniline and methyl pentachlorophenyl sulphide)	1.0	ND



IS003 CoA

Document Number: COA-119

Approval Date:
12 Aug 2024

Version Number: 2.0

Page 6 of 6

Prepared By: *Coby Baer*
Coby Baer (Aug 12, 2024 14:50 MDT)

Aug 12, 2024

Date

Approved By: *Natalie Marks*
Natalie Marks (Aug 13, 2024 14:35 MDT)

Aug 13, 2024

Date

VERSION HISTORY

VER.	DCC Number	Description of Change
1	DCC-2024-0052	Initial release
2	DCC-2024-0090	Added loss of drying, corrected the specific optical rotation test method to the most up to date method, corrected the loss of drying method to the most up to date method. Corrected reporting of micro for negative/1g for bile- tolerant gram negative bacteria.

CERTIFICATE OF ANALYSIS

Customer Name	Vantage Hemp Co.	Customer Address	2336 115th Ave, Greeley, CO 80634
Sample Name	VH240043. IS001. N/A. CBD Isolate RS24-0097	Condition Upon Receipt	As Expected
Batch Number	VH240043	Receipt Date	08Jul2024
Sample ID	4633	Reported Date	31Jul2024

Test ID	Test	Date Tested
T-053	Water Content in Ingredient Products	09Jul2024

Analyte	%w/w
Water Content	<0.1%



Results presented apply to the sample as received and identified above. This certificate of analysis cannot be reproduced, except in full, without written approval from Triverity Laboratories.

Triverity Laboratories LLC, 1740 Topaz Drive, Loveland, CO 80537

Tel: +1-970-800-3917 | Website: triveritylabs.com | Email: engage@triveritylabs.com

Triverity Laboratories is accredited in accordance with the recognised International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISOILAC-IAF Communiqué dated April 2017).

CERTIFICATE OF ANALYSIS

Customer Name	Vantage Hemp Co.	Customer Address	2336 115th Ave, Greeley, CO 80634
Sample Name	VH240043. IS001. N/A. CBD Isolate RS24-0097	Condition Upon Receipt	As Expected
Batch Number	VH240043	Receipt Date	08Jul2024
Sample ID	4633	Reported Date	31Jul2024

Test ID	Test	Date Tested
T-074	Cannabidiol Content and Related Compounds in Cannabidiol Isolate by EP Method	08Jul2024

Analyte	% w/w
Identification by Retention Time	Conforms
Identification by UV Spectra	Conforms
Cannabidiolol Impurity J (CBDO)	<0.05
Cannabidivarin (CBDV)	0.259
Cannabidibutol (CBDB)	0.131
Cannabidiol (CBD)	99.50
Cannabinol (CBN)	ND
Δ 9-Tetrahydrocannabinol (Δ 9-THC)	ND
Cannabidiol Hydroxyquinone (CBDHQ)	<0.05
Cannabichromene (CBC)	<0.05
Highest Unspecified Impurity	<0.05
Total Unspecified Impurities	0.390

Reporting threshold: 0.05 %, ND is not detected



Results presented apply to the sample as received and identified above. This certificate of analysis cannot be reproduced, except in full, without written approval from Triverity Laboratories.

Triverity Laboratories LLC, 1740 Topaz Drive, Loveland, CO 80537

Tel: +1-970-800-3917 | Website: triveritylabs.com | Email: engage@triveritylabs.com

Triverity Laboratories is accredited in accordance with the recognised International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISOILAC-IAF Communiqué dated April 2017).

CERTIFICATE OF ANALYSIS

Customer Name	Vantage Hemp Co.	Customer Address	2336 115th Ave, Greeley, CO 80634
Sample Name	VH240043. IS001. N/A. CBD Isolate RS24-0097	Condition Upon Receipt	As Expected
Batch Number	VH240043	Receipt Date	08Jul2024
Sample ID	4633	Reported Date	31Jul2024

Comments: Certificate reissued per D-371

Authorization: *Heather Krebs*

Heather Krebs, Director of
Laboratory Operations



Results presented apply to the sample as received and identified above. This certificate of analysis cannot be reproduced, except in full, without written approval from Triverity Laboratories.

Triverity Laboratories LLC, 1740 Topaz Drive, Loveland, CO 80537

Tel: +1-970-800-3917 | Website: triveritylabs.com | Email: engage@triveritylabs.com

Triverity Laboratories is accredited in accordance with the recognised International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISOILAC-IAF Communiqué dated April 2017).

July 26, 2024

VANTAGE HEMP CO.

2336 115th Ave
 Greeley, CO 80634

Order No. 558157
 Sample No. 1228155

SAMPLE INFORMATION

Description VH240043. IS001. N/A. CBD Isolate RS24-0097
Lot Number VH240043
Category (Type) Inhalable Concentrate (Isolate)
Received July 09, 2024

ANALYTICAL RESULTS

Analysis Pesticides - Ph Eur 2.8.13 ✔ Pass
Instrument GC & LC MS/MS
Method Ph Eur 2.8.13
Analysis Date July 09, 2024 to July 26, 2024

Analyte	LOD / LOQ (ppm)	Findings (ppm)	Limit	Status
Acephate	0.02/0.05	ND	0.1	Pass
Alachlor	0.02/0.05	ND	0.05	Pass
Aldrin	0.02/0.05	ND	0.05	Pass
Azinphos-ethyl	0.03/0.1	ND	0.1	Pass
Azinphos-methyl	0.17/0.5	ND	1	Pass
BHC-alpha (benzene hexachloride)	0.025/0.075	ND	0.3	Pass
BHC-beta	0.025/0.075	ND	0.3	Pass
BHC-delta	0.025/0.075	ND	0.3	Pass
BHC-epsilon	0.025/0.075	ND	0.3	Pass
BHC-gamma (Lindane, gamma HCH)	0.03/0.1	ND	0.6	Pass
Bromophos-ethyl	0.02/0.05	ND	0.05	Pass
Bromophos-Methyl	0.02/0.05	ND	0.05	Pass
Bromopropylate	0.08/0.25	ND	3	Pass
Chlordane-cis	0.02/0.05	ND	0.05	Pass
Chlordane-oxy	0.02/0.05	ND	0.05	Pass
Chlordane-trans	0.02/0.05	ND	0.05	Pass
Chlorfenvinphos	0.08/0.25	ND	0.5	Pass
Chlorpyrifos	0.02/0.05	ND	0.2	Pass
Chlorpyrifos-methyl	0.03/0.1	ND	0.1	Pass
Cyfluthrin	0.03/0.1	ND	0.1	Pass
Cyhalothrin-lambda	0.17/0.5	ND	1	Pass
Cypermethrin	0.17/0.5	ND	1	Pass
DDD-o,p'	0.03/0.1	ND	1	Pass
DDD-p,p'	0.03/0.1	ND	1	Pass
DDE-o,p'	0.03/0.1	ND	1	Pass
DDE-p,p'	0.03/0.1	ND	1	Pass
DDT-o,p'	0.03/0.1	ND	1	Pass
DDT-p,p'	0.03/0.1	ND	1	Pass
Deltamethrin	0.17/0.5	ND	0.5	Pass

If there are any questions with this report, please contact "compliance@anresco.com".

Analyte	LOD / LOQ (ppm)	Findings (ppm)	Limit	Status
Diazinon	0.03/0.1	ND	0.5	Pass
Dichlofluanid	0.08/0.25	ND	0.1	Pass
Dichlorvos	0.03/0.1	ND	1	Pass
Dicofol	0.17/0.5	ND	0.5	Pass
Dieldrin	0.02/0.05	ND	0.05	Pass
Dimethoate	0.03/0.1	ND	0.1	Pass
Endosulfan I (alpha)	0.08/0.25	ND	3	Pass
Endosulfan II (beta)	0.08/0.25	ND	3	Pass
Endosulfan sulfate	0.08/0.25	ND	3	Pass
Endrin	0.02/0.05	ND	0.05	Pass
Ethion	0.17/0.5	ND	2	Pass
Etrimfos	0.02/0.05	ND	0.05	Pass
Fenchlorphos (Ronnel)	0.03/0.1	ND	0.1	Pass
Fenitrothion	0.17/0.5	ND	0.5	Pass
Fenpropathrin	0.17/0.5	ND	0.03	Pass
Fensulfothion	0.02/0.05	ND	0.05	Pass
Fenthion	0.17/0.5	ND	0.05	Pass
Fenvalerate	0.08/0.25	ND	1.5	Pass
Flucythrinate	0.02/0.05	ND	0.05	Pass
Fluvalinate-tau	0.02/0.05	ND	0.05	Pass
Fonofos	0.02/0.05	ND	0.05	Pass
Heptachlor	0.02/0.05	ND	0.05	Pass
Heptachlor endo-epoxide	0.02/0.05	ND	0.05	Pass
Heptachlor exo-epoxide	0.02/0.05	ND	0.05	Pass
Hexachlorobenzene	0.03/0.1	ND	0.1	Pass
Malaoxon (Malathion-oxon)	0.08/0.25	ND	1	Pass
Malathion	0.08/0.25	ND	1	Pass
Mecarbam	0.02/0.05	ND	0.05	Pass
Methacrifos	0.02/0.05	ND	0.05	Pass
Methamidophos	0.02/0.05	ND	0.05	Pass
Methidathion	0.07/0.2	ND	0.2	Pass
Methoxychlor, o,p'	0.02/0.05	ND	0.05	Pass
Methoxychlor, p,p'	0.17/0.5	ND	0.05	Pass
Mirex	0.003/0.01	ND	0.01	Pass
Monocrotophos	0.03/0.1	ND	0.1	Pass
Octachlorodipropyl ether (S-421)	0.01/0.02	ND	0.02	Pass
Parathion	0.08/0.25	ND	0.5	Pass
Parathion Methyl	0.03/0.1	ND	0.2	Pass
Pendimethalin	0.03/0.1	ND	0.1	Pass
Pentachloroaniline	0.17/0.5	ND	1	Pass
Pentachloroanisole	0.003/0.01	ND	0.01	Pass
Pentachloronitrobenzene	0.03/0.1	ND	1	Pass
Pentachlorothioanisole	0.03/0.1	ND	1	Pass
Permethrins	0.17/0.5	ND	1	Pass
Phosalone	0.03/0.1	ND	0.1	Pass
Phosmet	0.02/0.05	ND	0.05	Pass
Piperonyl Butoxide	0.03/0.1	ND	3	Pass

If there are any questions with this report, please contact "compliance@anresco.com".

Analyte	LOD / LOQ (ppm)	Findings (ppm)	Limit	Status
Pirimiphos-ethyl	0.02/0.05	ND	0.05	Pass
Pirimiphos-methyl	0.08/0.25	ND	4	Pass
Procymidone	0.03/0.1	ND	0.1	Pass
Profenofos	0.03/0.1	ND	0.1	Pass
Prothiofos	0.02/0.05	ND	0.05	Pass
Pyrethrins	0.17/0.5	ND	3	Pass
Quinalphos	0.02/0.05	ND	0.05	Pass
Tecnazene	0.02/0.05	ND	0.05	Pass
Tetradifon	0.08/0.25	ND	0.3	Pass
Vinclozolin	0.08/0.25	ND	0.4	Pass

The LOD / LOQ of Fenpropathrin, Fenthion, and Methoxychlor, p,p'- are elevated to 0.17ppm / 0.50ppm due to their respective sample matrices.

Reported by
Anresco, Inc.

ND = None Detected
LOD = Limit of Detection
LOQ = Limit of Quantitation


Khoa Nguyen
Analyst I



July 26, 2024

If there are any questions with this report, please contact "compliance@anresco.com".

July 25, 2024

VANTAGE HEMP CO.
2336 115th Ave
Greeley, CO 80634

Order No. 558157
Sample No. 1228155

SAMPLE INFORMATION

Description VH240043. IS001. N/A. CBD Isolate RS24-0097
Lot Number VH240043
Category (Type) Inhalable Concentrate (Isolate)
Received July 09, 2024

ANALYTICAL RESULTS

Analysis Dithiocarbamates (CS2) ✔ Pass
Instrument GCMS
Method Acta. Chim. Slov. 2006, 53, 100-104
Analysis Date July 09, 2024 to July 25, 2024

Analyte	LOD (ppm)	Findings (ppm)	Limit	Status
Dithiocarbamates (CS2)	1.0	ND	2.0	Pass

Reported by
Anresco, Inc.

ND = None Detected
LOD = Limit of Detection
LOQ = Limit of Quantitation




Eric Tam
Senior Chemist

July 25, 2024

If there are any questions with this report, please contact "compliance@anresco.com".

July 26, 2024

VANTAGE HEMP CO.
2336 115th Ave
Greeley, CO 80634

Order No. 558157
Sample No. 1228155

SAMPLE INFORMATION

Description VH240043. IS001. N/A. CBD Isolate RS24-0097
Lot Number VH240043
Category (Type) Inhalable Concentrate (Isolate)
Received July 09, 2024

ANALYTICAL RESULTS

Analysis Heavy Metals ✔ Pass
Instrument Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
Method Ph Eur 2.4.27
Analysis Date July 09, 2024 to July 26, 2024

Analyte	LOD/LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
Arsenic	0.02/0.05	ND	0.2	Pass
Cadmium	0.02/0.05	ND	0.2	Pass
Mercury	0.02/0.05	ND	0.1	Pass
Lead	0.02/0.125	ND	0.5	Pass

Reported by
Anresco, Inc.

ND = None Detected
LOD = Limit of Detection
LOQ = Limit of Quantitation



Eric Tam
Senior Chemist

July 26, 2024

If there are any questions with this report, please contact "compliance@anresco.com".

July 26, 2024

VANTAGE HEMP CO.

2336 115th Ave
Greeley, CO 80634

Order No. 558157
Sample No. 1228155

SAMPLE INFORMATION

Description VH240043. IS001. N/A. CBD Isolate RS24-0097
Lot Number VH240043
Category (Type) Inhalable Concentrate (Isolate)
Received July 09, 2024

ANALYTICAL RESULTS

Analysis Residual Solvents - Ph. Eur 2.4.24 ✔ Pass
Method Ph. Eur 2.4.24 (GC/MS)
Analysis Date July 09, 2024 to July 26, 2024

Analyte	LOD/LOQ	Findings	Limit	Status
n-Butane	67/200	ND	67	Pass
Methanol	67/200	ND	67	Pass
n-Pentane	67/200	<LOQ	1000	Pass
Propane	67/200	ND	67	Pass

Reported by
Anresco, Inc.

ND = None Detected
LOD = Limit of Detection
LOQ = Limit of Quantitation


Jordean Vargas
Analyst III



July 26, 2024

If there are any questions with this report, please contact "compliance@anresco.com".

July 26, 2024

VANTAGE HEMP CO.
2336 115th Ave
Greeley, CO 80634

Order No. 558157
Sample No. 1228155

SAMPLE INFORMATION

Description VH240043. IS001. N/A. CBD Isolate RS24-0097
Lot Number VH240043
Category (Type) Inhalable Concentrate (Isolate)
Received July 09, 2024

ANALYTICAL RESULTS

Analysis Aflatoxin - Ph Eur 2.8.18
Instrument Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)
Method MF-CHEM-13
Analysis Date July 09, 2024 to July 26, 2024

Analyte	LOD / LOQ (ppb)	Findings (ppb)	Limit	Status
Aflatoxin B1	0.5/1	ND	2	Pass
Aflatoxin B2	0.5/1	ND	-	-
Aflatoxin G1	0.5/1	ND	-	-
Aflatoxin G2	0.5/1	ND	-	-
Total Aflatoxins	2/4	ND	4	Pass

Reported by
Anresco, Inc.

ND = None Detected
LOD = Limit of Detection
LOQ = Limit of Quantitation


Khoa Nguyen
Analyst I



July 26, 2024

If there are any questions with this report, please contact "compliance@anresco.com".

July 26, 2024

VANTAGE HEMP CO.
2336 115th Ave
Greeley, CO 80634

Order No. 558157
Sample No. 1228155

SAMPLE INFORMATION

Description VH240043. IS001. N/A. CBD Isolate RS24-0097
Lot Number VH240043
Category (Type) Inhalable Concentrate (Isolate)
Received July 09, 2024

ANALYTICAL RESULTS

Analysis Ochratoxin A - Ph Eur 2.8.22 ✔ Pass
Instrument Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)
Method MF-CHEM-13
Analysis Date July 09, 2024 to July 26, 2024

Analyte	LOD / LOQ (µg/kg)	Findings (µg/kg)	Limit	Status
Ochratoxin A - Ph Eur 2.8.22	0.5/1	ND	1	Pass

Reported by
Anresco, Inc.

ND = None Detected
LOD = Limit of Detection
LOQ = Limit of Quantitation


Khoa Nguyen
Analyst I



July 26, 2024

If there are any questions with this report, please contact "compliance@anresco.com".

July 31, 2024

VANTAGE HEMP CO.
2336 115th Ave
Greeley, CO 80634

Order No. 558157
Sample No. 1228155

SAMPLE INFORMATION

Description VH240043. IS001. N/A. CBD Isolate RS24-0097
Lot Number VH240043
Received July 09, 2024

ANALYTICAL RESULTS

Analysis Date July 09, 2024 to July 31, 2024

Findings	Analysis	Results	Method
	Ash - Ph Eur 2.4.16	<0.01 %	Muffled Furnace
	Zinc	0.02 %	AOAC 985.35

Reported by
Anresco, Inc.




Cynthia Kushi
Lab Co Director

If there are any questions with this report, please contact "compliance@anresco.com".

page 1 of 1

July 30, 2024

VANTAGE HEMP CO.
2336 115th Ave
Greeley, CO 80634

Order No. 558157
Sample No. 1228155

SAMPLE INFORMATION

Description VH240043. IS001. N/A. CBD Isolate RS24-0097
Lot Number VH240043
Received July 09, 2024

ANALYTICAL RESULTS

Analysis Date July 09, 2024 to July 30, 2024

Findings	Analysis	Results	Method
	Total Plate Count	<10 cfu/g	Ph. Eur 2.6.12/USP 61
	Yeast	<10 cfu/g	Ph. Eur 2.6.12/USP 61
	Mold	<10 cfu/g	Ph. Eur 2.6.12/USP 61
	Bile Tolerant Gram Negative	Negative /10g	Ph. Eur 2.6.13/USP 62
	E. coli	Negative /10g	Ph. Eur 2.6.13/USP 62
	Salmonella	Negative /10g	Ph. Eur 2.6.13/USP 62
	Pseudomonas	Negative /10g	Ph. Eur 2.6.13/USP 62
	Staphylococcus	Negative /10g	Ph. Eur 2.6.13/USP 62

Reported by
Anresco, Inc.


Allen Zhu
Analyst



If there are any questions with this report, please contact "compliance@anresco.com".

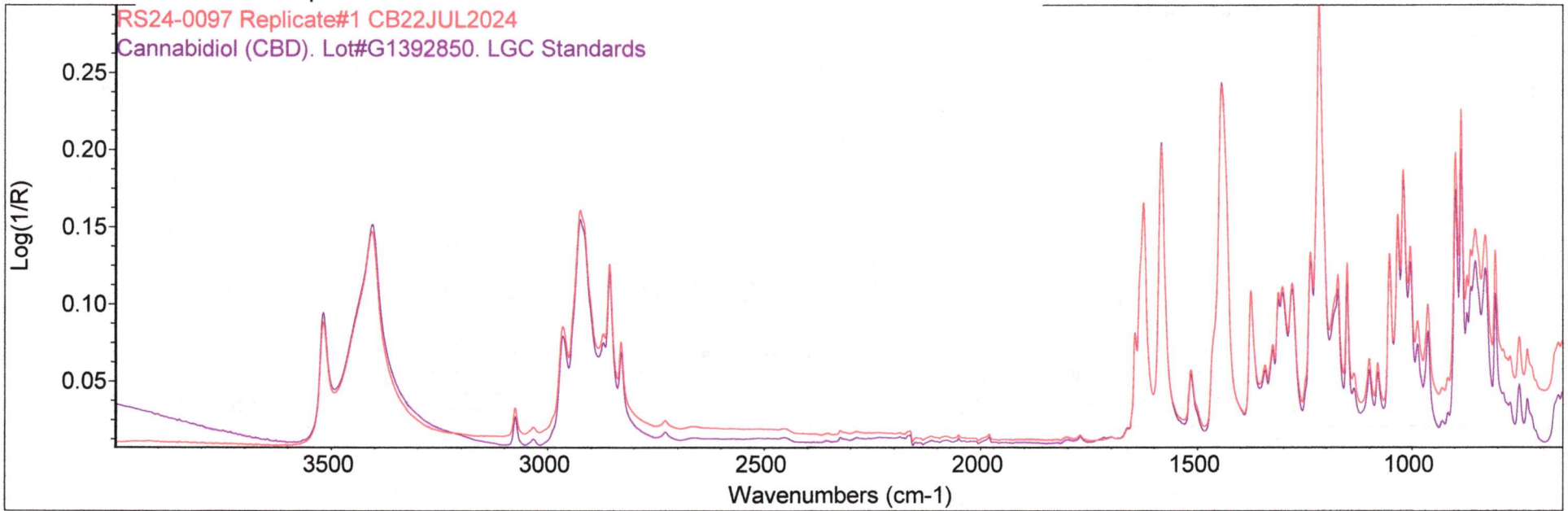
page 1 of 1



Certificate of Analysis

Customer: Vantage Hemp Contract: VHCO2800 Phase: I	Project: 13742-013 Document: RPT157516.00 Report Date: 08AUG2024
Testing Site: Wilmington, NC Sample: CBD Isolate (IS003) EP Compliant Lot: VH240043 Description: VH240043. IS001. N/A. CBD Isolate RS24-0097	LIR/DEV: LIR15824 Raw Data: Requested Specification: SPEC-API-0001 Version: 1.0

Test	Method/ Date Tested	Acceptance Criteria	Result
Water (% w/w)	TP82454.00 15JUL2024	≤ 0.2%	≤ 0.1%
Specific optical rotation	cPh.Eur. 16JUL2024 (Original) 31JUL2024 (Retest)	-135.0 to -128.0 (anhydrous substance)	-127.8 (Original Results) Container 2 Retest <u>Prep</u> <u>Results</u> 1 -129.5 2 -129.6 3 -129.6 4 -130.0 5 -129.7 6 -129.6 Mean (6) -129.7
NOTE: Reference LIR15824.			
Loss on drying (% w/w)	TP82353.01 15JUL2024	< 0.5%	LOD: 0.1% Temperature: 40°C Time: 24 hours



Spectrum: RS24-0097 Replicate#1 CB22JUL2024
 Region: 3495.26-649.92
 Search type: Correlation

Hit List:

Index	Match	Compound name	Library
73	99.89	Cannabidiol (CBD). Lot#G1392850. LGC Standards	Vantage Hemp Custom Library
37	91.27	Cannabidiol	HR Nicolet Sampler Library
37	90.10	CANNABIDIOL IN KBR	Georgia State Crime Lab Sample Library
72	68.68	FSO Oil C00621 esp2023	Vantage Hemp Custom Library
53	49.29	CANNABICHROMENE IN KBR	Georgia State Crime Lab Sample Library
35	47.41	CANNABIGEROL IN KBR	Georgia State Crime Lab Sample Library
102	39.20	4-BROMO-2,5-DIMETHOXYAMPHETAMINE	Georgia State Crime Lab Sample Library
53	35.57	Cannabichromene	HR Nicolet Sampler Library
25	34.90	D-A-TOCOPHEROL ACETATE FROM NATUR	Sigma Biological Sample Library
52	34.64	DELTA-8-TETRAHYDROCANNABINOL	Georgia State Crime Lab Sample Library

Result: 99.89% CBD



Completed By
Coby Baer

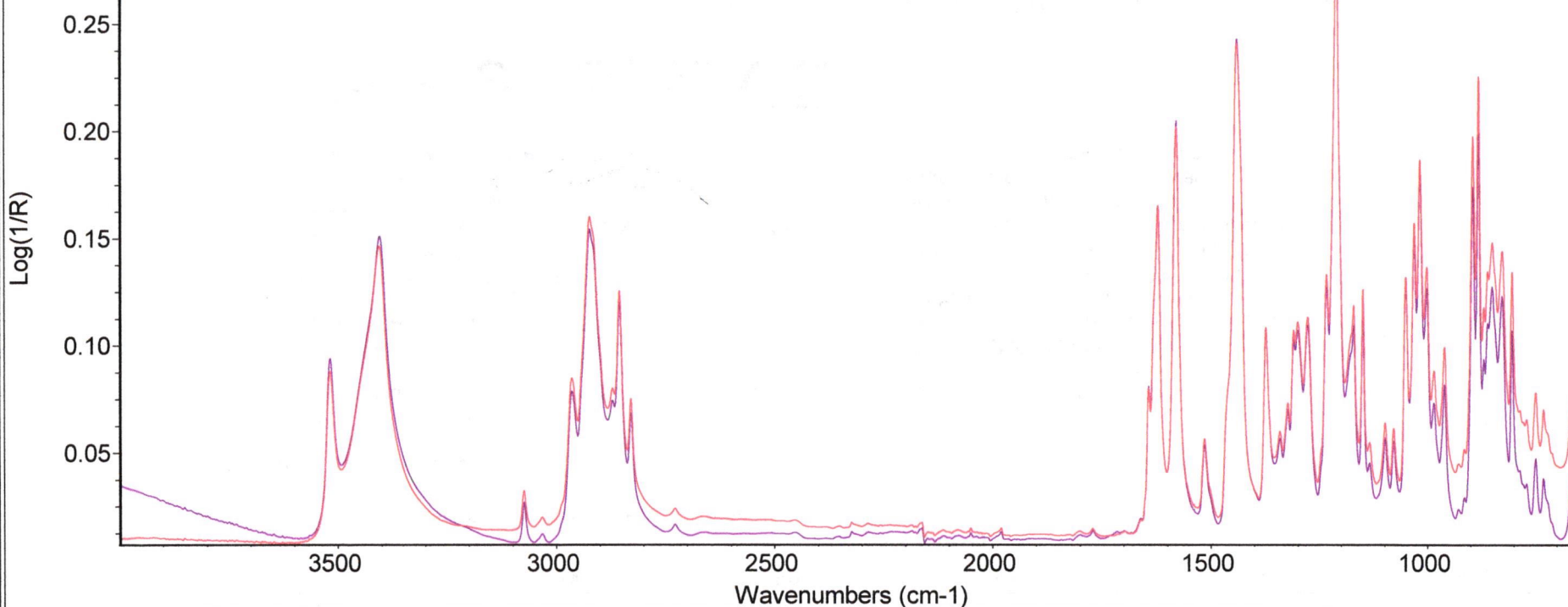
Date
22 Jul 2024

Approved By
Dave Mo

Date
22 Jul 2024

RS24-0097 Replicate#1 CB22JUL2024

RS24-0097 Replicate#1 CB22JUL2024
Cannabidiol (CBD). Lot#G1392850. LGC Standards



Title: RS24-0097 Replicate#1 CB22JUL2024

Date: Mon Jul 22 10:12:25 2024 (GMT-06:00)

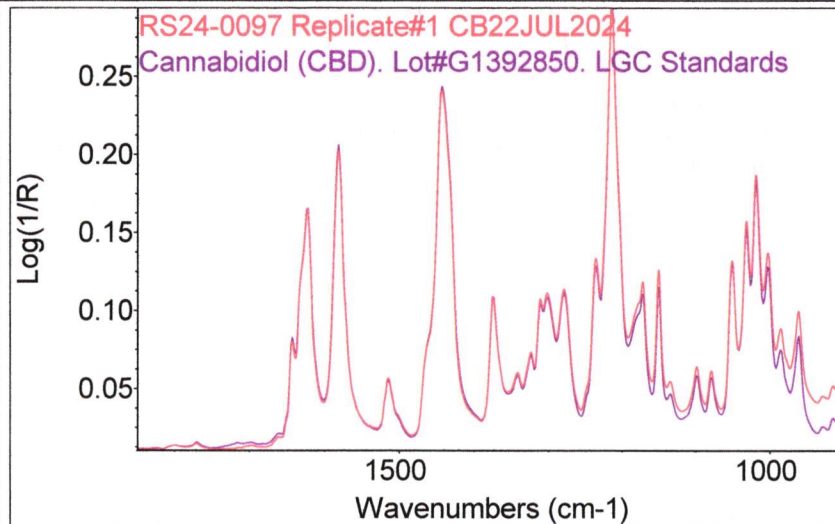
ID: VH240043. IS001. CBD Isolate. RS24-0097

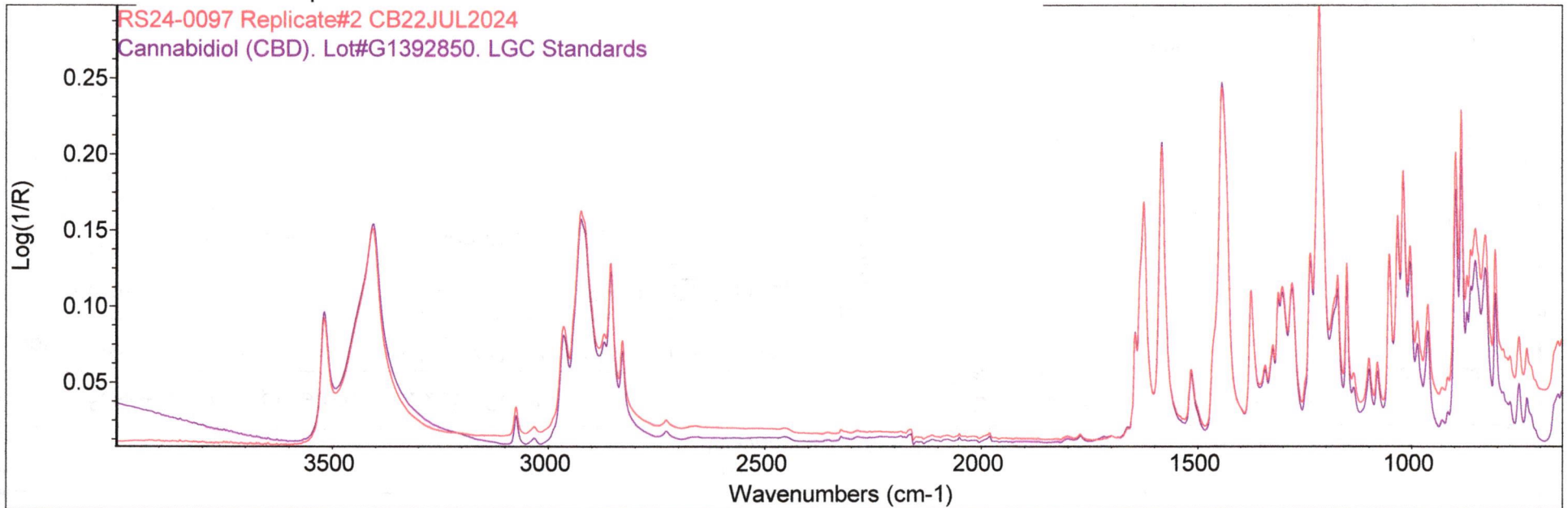
User name: omnicadmin

Method: SOP-QC-014

Number of sample scans: 36
Number of background scans: 64 Nicolet iS10
Resolution: 4.000 Qualified 17JUL2024
Sample gain: 2.0 Due JUL2025
Optical velocity: 0.4747
Aperture: 80.00

Comments:





Spectrum: RS24-0097 Replicate#2 CB22JUL2024
 Region: 3495.26-649.92
 Search type: Correlation
 Hit List:

Index	Match	Compound name	Library
73	99.93	Cannabidiol (CBD). Lot#G1392850. LGC Standards	Vantage Hemp Custom Library
37	91.12	Cannabidiol	HR Nicolet Sampler Library
37	89.93	CANNABIDIOL IN KBR	Georgia State Crime Lab Sample Library
72	67.88	FSO Oil C00621 esp2023	Vantage Hemp Custom Library
53	49.10	CANNABICHROMENE IN KBR	Georgia State Crime Lab Sample Library
35	47.23	CANNABIGEROL IN KBR	Georgia State Crime Lab Sample Library
102	39.33	4-BROMO-2,5-DIMETHOXYAMPHETAMINE	Georgia State Crime Lab Sample Library
53	35.29	Cannabichromene	HR Nicolet Sampler Library
25	34.94	D-A-TOCOPHEROL ACETATE FROM NATUR	Sigma Biological Sample Library
52	34.44	DELTA-8-TETRAHYDROCANNABINOL	Georgia State Crime Lab Sample Library

Result: 99.93% CBD



Completed By
Coby Baer

Date
 22 Jul 2024

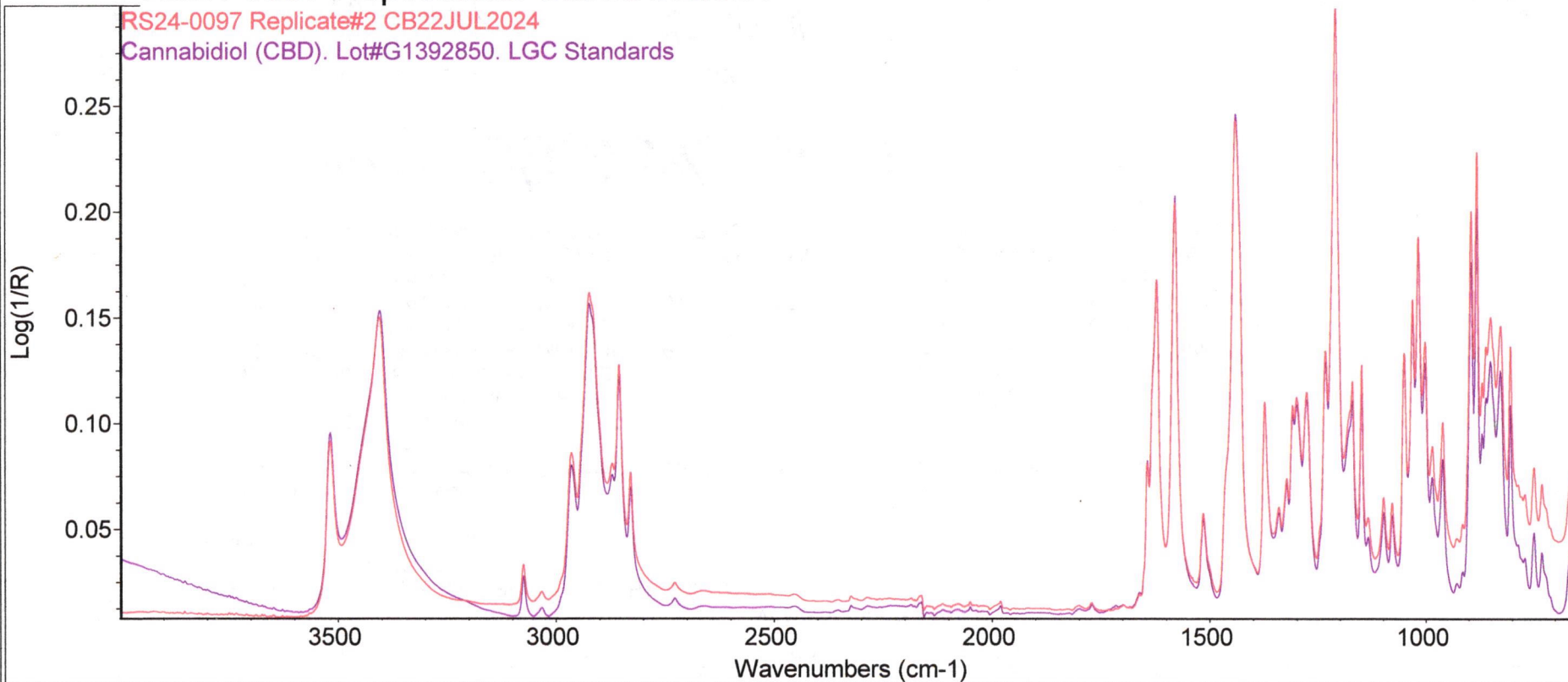
Approved By

Date
~~22 JUL 2024~~
 22 JUL 2024

DE JEM
 22 JUL 2024

RS24-0097 Replicate#2 CB22JUL2024

RS24-0097 Replicate#2 CB22JUL2024
Cannabidiol (CBD). Lot#G1392850. LGC Standards



Title: RS24-0097 Replicate#2 CB22JUL2024

Date: Mon Jul 22 10:14:59 2024 (GMT-06:00)

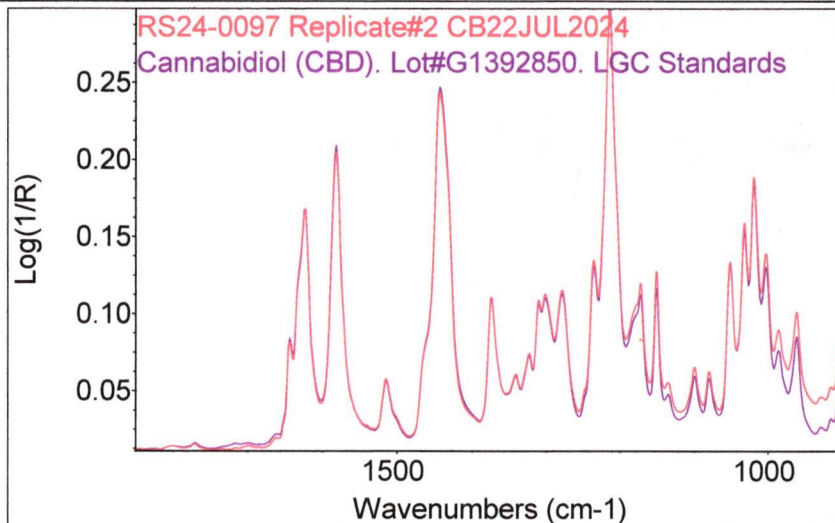
ID: VH240043. IS001. CBD Isolate. RS24-0097


User name: omnicadmin

Method: SOP-QC-014

Number of sample scans: 36
Number of background scans: 64 Nicolet iS10
Resolution: 4.000 Qualified 17JUL2024
Sample gain: 2.0 Due JUL2025
Optical velocity: 0.4747
Aperture: 80.00

Comments:



	Physical Properties Test Report	
	Document Number: FRM-QC-021 Governing SOP: SOP-QC-013	Effective Date: 13 Jun 2023
	Version Number: 3.0	Page 1 of 2

QC Test Report – Physical Properties


Product Identification						
QC Sample ID	Item #	Control #	Lot #	Description	Performed By (initials and date)	Verified By (initials and date)
RS24-0097	IS001	N/A	VH140043	CBD Isolate	CB 09 Jul 2024	Nmm 10 JUL 2024

Nmm
10 JUL 2024

Extracts and Finished Goods					<input type="checkbox"/> N/A
Criteria	Specification	Result	Performed By (initials and date)	Verified By (initials and date)	
Appearance:	N/A	N/A	N/A	N/A	
Consistency:	Powder/ fine crystals	Powder	CB 09 Jul 2024	Nmm 10 JUL 2024	
Color:	White/ off-white	White	CB 09 Jul 2024	Nmm 10 JUL 2024	
Foreign Materials:	Free of foreign materials	Free of Foreign materials	CB 09 Jul 2024	Nmm 10 JUL 2024	
Odor:	Odorless to subtle earthy smell	Subtle earthy smell	CB 09 Jul 2024	Nmm 10 JUL 2024	

Biomass					<input checked="" type="checkbox"/> N/A
Criteria	Specification	Result	Performed By (initials and date)	Verified By (initials and date)	
Moisture (Visual):					
Color:					
Odor:					

Raw Materials					<input checked="" type="checkbox"/> N/A
Criteria	Specification	Result	Performed By (initials and date)	Verified By (initials and date)	
Consistency:					
Color:					

 VANTAGE HEMP	Physical Properties Test Report	
	Document Number: FRM-QC-021 Governing SOP: SOP-QC-013	Effective Date: 13 Jun 2023
	Version Number: 3.0	Page 2 of 2

Odor:				
-------	--	--	--	--

Additional Observations		<input checked="" type="checkbox"/> N/A
Footnote #:	Observation	

REV	CR Number	Description of Change
1	DCC-2022-0059	Initial Release
2	DCC-2022-0069	Updates to the Physical Properties SOP and associated form to include instructions and test reports for incoming raw materials.
3	DCC-2023-0109	Update to 12pt Times New Roman and include performed by/verified by columns, N/A boxes, and appearance category.