



Pangaia Tincture 5% PGA001 COA

Document Number: COA-046

Approval Date:
12 Dec 2024

Version Number: 3.0

Page 1 of 5

Certificate of Analysis

Product Identification	
Item Number/Spec Number	PGA001 / SPEC-FP-0015 Version 3.0
Batch Number	VH24-089
Sample ID	RS24-0194, TS24-0750, TS24-0751, TS24-0752, TS24-0753.
Manufacture Date	19Nov2024
Retest Date	19Nov2026
Description	Pangaia Tincture 5%
Supplier	Vantage Hemp

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	
Cannabinoids:	<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	
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	
Heavy Metals	<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:	* Reference CC-2024-0066	<input type="checkbox"/> N/A



Pangaia Tincture 5% PGA001 COA

Document Number: COA-046

Approval Date:
12 Dec 2024

Version Number: 3.0

Page 2 of 5

PHYSICAL PROPERTIES

METHOD: SOP-QC-013

CHARACTERISTIC	SPECIFICATIONS	RESULTS
Consistency	Liquid	Liquid
Color	Translucent, yellow to amber	Translucent, yellow to amber
Foreign Materials	Free from foreign materials	Free from foreign materials
Smell	Odorless to light earthy odor	Odorless to light earthy odor

CANNABINOID PROFILE

METHOD: MF12D012 (LC/MS/MS) LOD: 0.00017% LOQ: 0.00050%

SUBSTANCE:		SPECIFICATION (REPORT mg/ml):	RESULTS (REPORT mg/ml):				
CBD	Cannabidiol	50 mg/ml +/- 10%	47.2441 % (RS24-0194)	46.8964% (TS24-0750)	47.4968% (TS24-0751)	47.6102% (TS24-0752)	46.6324% (TS24-0753)
THC	Total THC	< 0.9 mg/ml	ND	ND	ND	ND	ND

MICROBIALS

SUBSTANCE	METHOD	ACTION LIMITS	RESULTS
Salmonella spp.	AOAC 2016.01	Absent in 25 g	Absent in 25 g
–Shiga-toxin producing Escherichia coli (STEC) Bacteria	3M MDS STEC/EAE	Absent in 25 g	Absent in 25 g
Total coliforms	FDA BAM- ECC AGAR	< 10 ² cfu/g	<10 cfu/g
Total aerobic plate count	FDA BAM	< 10 ⁴ cfu/g	<10 cfu/g
Total yeast and mold	FDA BAM	< 10 ³ cfu/g	<10 cfu/g

**Pangaia Tincture 5% PGA001 COA**

Document Number: COA-046

Approval Date:
12 Dec 2024

Version Number: 3.0

Page 3 of 5

MYCOTOXIN PANEL**METHOD: MF-CHEM-13 : (LC-MS/MS) (GC-MS/MS)**

SUBSTANCE	SPECIFICATION (PPB)	RESULTS
Aflatoxins (B1, B2, G1, and G2)	< 20 (total of B1 + B2 + G1 + G2)	ND
Aflatoxin B1	< 5	ND
Ochratoxin	< 5	ND

RESIDUAL SOLVENT PANEL**METHOD: USP OVI <467> (GC/MS)**

SUBSTANCE	SPECIFICATION (PPM)	RESULTS
Acetone	ND	ND
Benzene	ND	ND
Butanes	ND	ND
Ethanol	ND	ND
Ethyl Acetate	ND	ND
Heptanes	ND	ND
Hexane	ND	ND
Isopropyl Alcohol	ND	ND
Methanol	ND	ND
Pentane	ND	ND
Propane	ND	ND
Toluene	ND	ND
Total Xylenes (m, p, o-xylenes)	ND	ND

HEAVY METALS PANEL**METHOD: MF 24E020 :(ICP-MS)**

SUBSTANCE	SPECIFICATION (PPM)	RESULTS
Arsenic	< 1.5	ND
Cadmium	< 0.5	ND
Lead	< 0.5	ND
Mercury	< 1.5	ND

**Pangaia Tincture 5% PGA001 COA**

Document Number: COA-046

Approval Date:
12 Dec 2024

Version Number: 3.0

Page 4 of 5

PESTICIDE PANEL**METHOD : USP 2.8.13 GC- MS/MS**

SUBSTANCE	LIMIT (MG/KG)	RESULTS
Alachlor	0.05	ND
Aldrin and Dieldrin (sum of)	0.05	ND
Azinphos-methyl	1.0	ND
Bromopropylate	3.0	ND
Chlordane (sum of <i>cis</i> -, <i>trans</i> - 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 <i>p,p'</i> -DDT, <i>o,p'</i> -DDT, <i>p,p'</i> -DDE and <i>p,p'</i> -TDE)	1.0	ND
Deltamethrin	0.5	ND
Diazinon	0.5	ND
Dichlorvos	1.0	ND
Dithiocarbamates (as CS ₂)	2.0	*
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 Heptachlorepoide)	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
Methidathion	0.2	ND
Parathion	0.5	ND
Parathion-methyl	0.2	ND
Permethrin	1.0	ND
Phosalone	0.1	ND

**Pangaia Tincture 5% PGA001 COA**

Document Number: COA-046

Approval Date:
12 Dec 2024

Version Number: 3.0

Page 5 of 5

PESTICIDE PANEL CONTINUED**METHOD : USP 2.8.13 GC- MS/MS**

SUBSTANCE	<u>LIMIT</u> (MG/KG)	RESULTS
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

Prepared By:

Andrea Stahl
Andrea Stahl (Dec 13, 2024 13:14 MST)12/13/2024

Date


Approved By:

Darcie Moran
Darcie Moran (Dec 13, 2024 14:41 MST)12/13/2024

Date

REVISION HISTORY

REV	CR Number	Description of Change
1	DCC-2023-0075	Initial Release
2	DCC-2024-0132	Corrected physical properties method, total THC specification, and included the manufacture and retest date.
3	DCC-2024-0139	Remove Control number reference, added spec version number, update pest panel to USP/EP requirements, corrected micro method

	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)
R624-0194	PGA001 N/A FF: KC 25 Nov 2024	VH24-089	n/a	Pangaia 5/1 Tincture	KC 25 Nov 2024	Nmm 26 Nov 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:	Liquid	Liquid	KC 25 Nov 2024	Nmm 26 Nov 2024	
Color:	Translucent, yellow to amber	Translucent, yellow to amber	KC 25 Nov 2024	Nmm 26 Nov 2024	
Foreign Materials:	Free from foreign materials	Free from foreign materials	KC 25 Nov 2024	Nmm 26 Nov 2024	
Odor:	Odorless to light earthy odor	Odorless to light earthy odor	KC 25 Nov 2024	Nmm 26 Nov 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:					
Odor:					

	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

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.

Document Approvals
Approved Date: 13 Jun 2023

Task: SME Approval Verdict: Approve changes & release	Deepank Utkhede, Chief Process Biochemist & COO (deepank@vantagehemp.com) SME Approver 08-Jun-2023 17:59:43 GMT+0000
Task: QA Approval Verdict: Approve changes & release	Darcie Moran, QA MANAGER (darcie@vantagehemp.com) QA Approval 13-Jun-2023 20:18:18 GMT+0000

Effective

November 25, 2024

VANTAGE HEMP CO.

2336 115th Ave
Greeley, CO 80634

Order No. 563769
Sample No. 1259509

SAMPLE INFORMATION

Description VH24-089 PGA001 Pangaia 5% Tincture RS24-0194
Lot Number VH24-089
Category (Type) Non-Inhalable Edible (Tincture)
Received November 22, 2024

ANALYTICAL RESULTS

Analysis Cannabinoid Profile - LCMSMS
Instrument Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS)
Method MF-CHEM-15
Analysis Date November 22, 2024 to November 25, 2024

Cannabinoid	mg/g	%	mg/ml
Δ8-THC	ND	ND	ND
Δ9-THC	ND	ND	ND
Δ9-THCA	ND	ND	ND
THCV	0.0141	0.00141	0.0130
THCVA	ND	ND	ND
CBD	51.4081	5.14081	47.2441
CBDA	ND	ND	ND
CBC	ND	ND	ND
CBCA	ND	ND	ND
CBDV	0.7552	0.07552	0.6940
CBG	0.9035	0.09035	0.8303
CBGA	ND	ND	ND
CBN	0.0083	0.00083	0.0077
Total THC	ND	ND	ND
Total CBD	51.4081	5.14081	47.244
Total Cannabinoids	53.0892	5.30892	48.789
Sum of Cannabinoids	53.0892	5.30892	48.789
g/ml Conversion Factor	0.919		

Reported by
Anresco, Inc.

ND = None Detected
LOD = Limit of Detection (0.0007 mg/g)
LOQ = Limit of Quantitation (0.0020 mg/g)
Total THC = Δ8-THC + Δ9-THC + (0.877 * THCA)
Total CBD = CBD + (0.877 * CBDA)
Total Cannabinoids = Σ (neutral cannabinoids) + [0.877 * Σ (acidic cannabinoids)]


Alex Ma
Analyst III



November 25, 2024

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

November 27, 2024

VANTAGE HEMP CO.

2336 115th Ave
Greeley, CO 80634

Order No. 563769
Sample No. 1259509

SAMPLE INFORMATION

Description VH24-089 PGA001 Pangaia 5% Tincture RS24-0194
Lot Number VH24-089
Category (Type) Non-Inhalable Edible (Tincture)
Received November 22, 2024

ANALYTICAL RESULTS

Analysis Microbiological Screen - CO CDPHE ✔ Pass

Analysis Date November 22, 2024 to November 27, 2024

Analyte	Findings	Method	Limit	Status
Standard Plate Count	<10 cfu/g	FDA BAM	<10,000	Pass
Total Yeast & Mold	<10 cfu/g	FDA BAM	<1,000	Pass
Coliforms	<10 cfu/g	FDA BAM - ECC AGAR	<100	Pass
Salmonella	Absent /25g	AOAC 2016.01	Absent/25g	Pass
STEC	Absent /25g	3M MDS STEC	Absent/25g	Pass

Reported by
Anresco, Inc.


Allen Zhu

Analyst

November 27, 2024

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

November 25, 2024

VANTAGE HEMP CO.

2336 115th Ave
Greeley, CO 80634

Order No. 563769
Sample No. 1259509

SAMPLE INFORMATION

Description VH24-089 PGA001 Pangaia 5% Tincture RS24-0194
Lot Number VH24-089
Category (Type) Non-Inhalable Edible (Tincture)
Received November 22, 2024

ANALYTICAL RESULTS

Analysis Residual Solvent Screen - CO CDPHE ✔ Pass
Instrument Gas Chromatography Mass Spectrometry (GC/MS)
Method MF-CHEM-32
Analysis Date November 22, 2024 to November 25, 2024

Analyte	LOD / LOQ (ppm)	Findings (ppm)	Limit	Status
Acetone	67/200	ND	1000	Pass
Benzene	0.2/0.5	ND	2	Pass
Butanes	67/200	ND	1000	Pass
Ethanol	67/200	ND	1000	Pass
Ethyl Acetate	67/200	ND	1000	Pass
Heptanes	67/200	ND	1000	Pass
Hexane	14/40	ND	60	Pass
Isopropyl Alcohol	67/200	ND	1000	Pass
Methanol	67/200	ND	600	Pass
Pentane	67/200	ND	1000	Pass
propane	67/200	ND	1000	Pass
Toluene	14/40	ND	180	Pass
Total Xylenes (m, p, o-xylenes)	67/200	ND	430	Pass
Any other solvent not permitted for use	NA/NA	ND	NA	Pass

Reported by
Anresco, Inc.

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


Alma Dorantes
Analyst I



November 25, 2024

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

November 25, 2024

VANTAGE HEMP CO.

2336 115th Ave
Greeley, CO 80634


Order No. 563769

Sample No. 1259509

SAMPLE INFORMATION

Description VH24-089 PGA001 Pangaia 5% Tincture RS24-0194
Lot Number VH24-089
Category (Type) Non-Inhalable Edible (Tincture)
Received November 22, 2024

ANALYTICAL RESULTS

Analysis Heavy Metals - CO CDPHE  Pass
Instrument ICP-MS
Method MF-CHEM-16
Analysis Date November 22, 2024 to November 25, 2024

Analyte	LOD / LOQ (ppm)	Findings (ppm)	Limit	Status
Arsenic	0.02/0.05	ND	1.5	Pass
Cadmium	0.02/0.05	ND	0.5	Pass
Mercury	0.02/0.05	ND	1.5	Pass
Lead	0.02/0.05	ND	0.5	Pass

Reported by
Anresco, Inc.

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



Eric Tam
Senior Chemist

November 25, 2024

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

December 11, 2024

VANTAGE HEMP CO.

2336 115th Ave
Greeley, CO 80634

Order No. 563769
Sample No. 1259509

SAMPLE INFORMATION

Description VH24-089 PGA001 Pangaia 5% Tincture RS24-0194
Lot Number VH24-089
Category (Type) Non-Inhalable Edible (Tincture)
Received November 22, 2024

ANALYTICAL RESULTS

Analysis Pesticides - Ph Eur 2.8.13 ✔ Pass
Instrument GC & LC MS/MS
Method Ph Eur 2.8.13
Analysis Date November 22, 2024 to December 11, 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
Diazinon	0.03/0.1	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
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	0.01/0.03	ND	0.03	Pass
Fensulfothion	0.02/0.05	ND	0.05	Pass
Fenthion	0.02/0.05	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'-	0.02/0.05	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
Pirimiphos-ethyl	0.02/0.05	ND	0.05	Pass

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

Analyte	LOD / LOQ (ppm)	Findings (ppm)	Limit	Status
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

Reported by
Anresco, Inc.

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




Blenda Cong
Analyst II

December 11, 2024

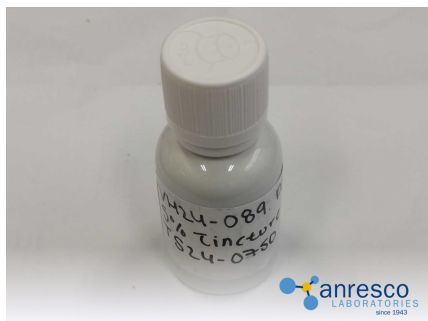
If there are any questions with this report, please contact "compliance@anresco.com".

ANALYZED BY:

Anresco Laboratories
1375 Van Dyke Avenue,
San Francisco, CA 94124
C8-0000052-LIC

CUSTOMER:

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

**SAMPLE INFORMATION**

Sample No.: 1260271
Product Name: VH24-089 PGA001 Pangaia 5% Tincture (IP) Bottle 1. TS24-0750
Matrix: Edible (Tincture)
Lot #: VH24-089

Date Collected: 11/22/2024
Date Received: 11/22/2024
Date Reported: 11/25/2024

TEST SUMMARY

Cannabinoid Profile:  Tested

Cannabinoid Profile

11/25/2024

Method: MF-CHEM-15
Instrument: Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS)
Limit of Detection 0.0007 mg/g
Limit of Quantitation 0.0020 mg/g

Cannabinoid	mg/g	%	mg/ml
Δ8-THC	ND	ND	ND
Δ9-THC	ND	ND	ND
Δ9-THCA	ND	ND	ND
THCV	0.0138	0.00138	0.0127
THCVA	ND	ND	ND
CBD	51.0298	5.10298	46.8964
CBDA	ND	ND	ND
CBC	ND	ND	ND
CBCA	ND	ND	ND
CBDV	0.7605	0.07605	0.6989
CBG	0.8998	0.08998	0.8269
CBGA	ND	ND	ND
CBN	0.0074	0.00074	0.0068
Total THC	ND	ND	ND
Total CBD	51.0298	5.10298	46.8964
Total Cannabinoids	52.7113	5.27113	48.4417
Sum of Cannabinoids	52.7113	5.27113	48.4417
g/ml Conversion Factor	0.919		

Total THC = Δ8-THC + Δ9-THC + (0.877 * THCA)
Total CBD = CBD + (0.877 * CBDA)
Total Cannabinoids = Σ (neutral cannabinoids) + [0.877 * Σ (acidic cannabinoids)]

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

Reported by




Vu Lam
Lab Co Director



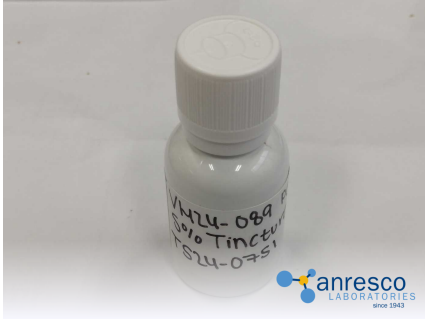
Scan to verify

ANALYZED BY:

Anresco Laboratories
1375 Van Dyke Avenue,
San Francisco, CA 94124
C8-0000052-LIC

CUSTOMER:

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

**SAMPLE INFORMATION**

Sample No.: 1260272
Product Name: VH24-089 PGA001 Pangaia 5% Tincture (IP) Bottle 500. TS24-0751
Matrix: Edible (Tincture)
Lot #: VH24-089

Date Collected: 11/22/2024
Date Received: 11/22/2024
Date Reported: 11/25/2024

TEST SUMMARY

Cannabinoid Profile:

**Cannabinoid Profile**

11/25/2024

Method: MF-CHEM-15
Instrument: Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS)
Limit of Detection 0.0007 mg/g
Limit of Quantitation 0.0020 mg/g

Cannabinoid	mg/g	%	mg/ml
Δ8-THC	ND	ND	ND
Δ9-THC	ND	ND	ND
Δ9-THCA	ND	ND	ND
THCV	0.0148	0.00148	0.0136
THCVA	ND	ND	ND
CBD	51.6832	5.16832	47.4968
CBDA	ND	ND	ND
CBC	ND	ND	ND
CBCA	ND	ND	ND
CBDV	0.7092	0.07092	0.6518
CBG	0.8877	0.08877	0.8158
CBGA	ND	ND	ND
CBN	0.0071	0.00071	0.0065
Total THC	ND	ND	ND
Total CBD	51.6832	5.16832	47.4969
Total Cannabinoids	53.3019	5.33019	48.9844
Sum of Cannabinoids	53.3019	5.33019	48.9844
g/ml Conversion Factor	0.919		

Total THC = Δ8-THC + Δ9-THC + (0.877 * THCA)
Total CBD = CBD + (0.877 * CBDA)
Total Cannabinoids = Σ (neutral cannabinoids) + [0.877 * Σ (acidic cannabinoids)]

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

Reported by

Vu Lam
Lab Co Director



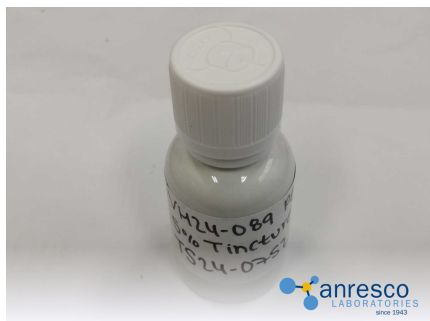
Scan to verify

ANALYZED BY:

Anresco Laboratories
1375 Van Dyke Avenue,
San Francisco, CA 94124
C8-0000052-LIC

CUSTOMER:

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



SAMPLE INFORMATION

Sample No.: 1260273
Product Name: VH24-089 PGA001 Pangaia 5% Tincture (IP) Bottle 1000. TS24-0752
Matrix: Edible (Tincture)
Lot #: VH24-089

Date Collected: 11/22/2024
Date Received: 11/22/2024
Date Reported: 11/25/2024

TEST SUMMARY

Cannabinoid Profile:



Cannabinoid Profile

11/25/2024

Method: MF-CHEM-15
Instrument: Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS)
Limit of Detection 0.0007 mg/g
Limit of Quantitation 0.0020 mg/g

Cannabinoid	mg/g	%	mg/ml
Δ8-THC	ND	ND	ND
Δ9-THC	ND	ND	ND
Δ9-THCA	ND	ND	ND
THCV	0.0135	0.00135	0.0124
THCVA	ND	ND	ND
CBD	51.8065	5.18065	47.6102
CBDA	ND	ND	ND
CBC	ND	ND	ND
CBCA	ND	ND	ND
CBDV	0.7661	0.07661	0.7040
CBG	0.9342	0.09342	0.8586
CBGA	ND	ND	ND
CBN	0.0061	0.00061	0.0056
Total THC	ND	ND	ND
Total CBD	51.8065	5.18065	47.6102
Total Cannabinoids	53.5265	5.35265	49.1909
Sum of Cannabinoids	53.5265	5.35265	49.1909
g/ml Conversion Factor	0.919		

Total THC = Δ8-THC + Δ9-THC + (0.877 * THCA)

Total CBD = CBD + (0.877 * CBDA)

Total Cannabinoids = Σ (neutral cannabinoids) + [0.877 * Σ (acidic cannabinoids)]

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

Reported by

Vu Lam
Lab Co Director



Scan to verify

ANALYZED BY:

Anresco Laboratories
1375 Van Dyke Avenue,
San Francisco, CA 94124
C8-0000052-LIC

CUSTOMER:

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

**SAMPLE INFORMATION**

Sample No.: 1260274
Product Name: VH24-089 PGA001 Pangaia 5% Tincture (IP) Bottle 1042. TS24-0753
Matrix: Edible (Tincture)
Lot #: VH24-089

Date Collected: 11/22/2024
Date Received: 11/22/2024
Date Reported: 11/25/2024

TEST SUMMARY

Cannabinoid Profile:  Tested

Cannabinoid Profile

11/25/2024

Method: MF-CHEM-15
Instrument: Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS)
Limit of Detection 0.0007 mg/g
Limit of Quantitation 0.0020 mg/g

Cannabinoid	mg/g	%	mg/ml
Δ8-THC	ND	ND	ND
Δ9-THC	ND	ND	ND
Δ9-THCA	ND	ND	ND
THCV	0.0139	0.00139	0.0127
THCVA	ND	ND	ND
CBD	50.7425	5.07425	46.6324
CBDA	ND	ND	ND
CBC	ND	ND	ND
CBCA	ND	ND	ND
CBDV	0.7042	0.07042	0.6471
CBG	0.8703	0.08703	0.7998
CBGA	ND	ND	ND
CBN	0.0062	0.00062	0.0057
Total THC	ND	ND	ND
Total CBD	50.7425	5.07425	46.6324
Total Cannabinoids	52.337	5.2337	48.0977
Sum of Cannabinoids	52.337	5.2337	48.0977
g/ml Conversion Factor	0.919		

Total THC = Δ8-THC + Δ9-THC + (0.877 * THCA)

Total CBD = CBD + (0.877 * CBDA)

Total Cannabinoids = Σ (neutral cannabinoids) + [0.877 * Σ (acidic cannabinoids)]

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

Reported by



Vu Lam
Lab Co Director



Scan to verify







1260271_Consolidated_COA (1)

Final Audit Report

2024-12-13

Created:	2024-12-13
By:	Andrea Stahl (astahl@vantagehemp.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAzb4m96tx7K5k_NYeNr2uUb9mIMcY6ifD

"1260271_Consolidated_COA (1)" History

-  Document created by Andrea Stahl (astahl@vantagehemp.com)
2024-12-13 - 8:07:30 PM GMT
-  Document emailed to Andrea Stahl (astahl@vantagehemp.com) for signature
2024-12-13 - 8:14:12 PM GMT
-  Document e-signed by Andrea Stahl (astahl@vantagehemp.com)
Signature Date: 2024-12-13 - 8:14:33 PM GMT - Time Source: server
-  Document emailed to Darcie Moran (darcie@vantagehemp.com) for signature
2024-12-13 - 8:14:38 PM GMT
-  Document e-signed by Darcie Moran (darcie@vantagehemp.com)
Signature Date: 2024-12-13 - 9:41:57 PM GMT - Time Source: server
-  Agreement completed.
2024-12-13 - 9:41:57 PM GMT