

CERTIFICATE OF ANALYSIS

Prepared for:

Pet Releaf

8100 Southpark Way
Littleton, CO USA 80120

Pet Releaf Hibiscus

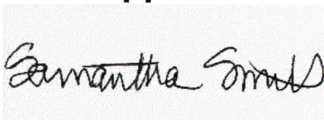
Batch ID or Lot Number: 2310AW	Test: Potency	Reported: 28Nov2023	USDA License: N/A
Matrix: Solution	Test ID: T000262856	Started: 28Nov2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 22Nov2023	Status: Active

Cannabinoids

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.064	0.247	0.487	0.48	Density = 1.01711g/mL
Cannabichromenic Acid (CBCA)	0.059	0.226	ND	ND	
Cannabidiol (CBD)	0.294	0.679	13.332	13.11	
Cannabidiolic Acid (CBDA)	0.301	0.697	ND	ND	
Cannabidivarin (CBDV)	0.070	0.161	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.126	0.291	ND	ND	
Cannabigerol (CBG)	0.036	0.140	0.227	0.22	
Cannabigerolic Acid (CBGA)	0.152	0.586	ND	ND	
Cannabinol (CBN)	0.048	0.183	ND	ND	
Cannabinolic Acid (CBNA)	0.104	0.400	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.181	0.698	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.165	0.634	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.146	0.561	ND	ND	
Tetrahydrocannabivarin (THCV)	0.033	0.127	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.129	0.495	ND	ND	
Total Cannabinoids			14.046	13.81	
Total Potential THC			<LOQ	<LOQ	
Total Potential CBD			13.332	13.11	

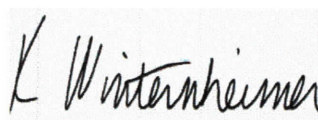
Approved: Paul Gennings QC 12-04-23

Final Approval



Sam Smith
28Nov2023
02:58:00 PM MST

PREPARED BY / DATE



Karen Winternheimer
28Nov2023
03:01:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/9060b90b-cb9e-40ec-9649-6fb0e0845910>

Definitions

% = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method).

Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877)).

CERTIFICATE OF ANALYSIS

Prepared for:
Pet Relief

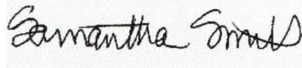
8100 Southpark Way
Littleton, CO USA 80120

Pet Relief Hibiscus

Batch ID or Lot Number: 2310AW	Test: Heavy Metals	Reported: 30Nov2023	USDA License: NA
Matrix: Finished Product	Test ID: T000262859	Started: 29Nov2023	Sampler ID: NA
	Method(s): TM19 (ICP-MS); Heavy Metals	Received: 22Nov2023	Status: NA

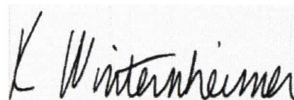
Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.32	ND	
Cadmium	0.04 - 4.28	ND	
Mercury	0.04 - 4.24	ND	
Lead	0.04 - 4.34	ND	

Final Approval



Sam Smith
30Nov2023
07:58:00 AM MST

PREPARED BY / DATE



Karen Winternheimer
30Nov2023
08:00:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/24d2fac1-f800-4562-b8e4-c86c80f586bc>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological.



Cert #4329.02

CDPHE Certified

24d2fac1f8004562b8e4c86c80f586bc.1

CERTIFICATE OF ANALYSIS

Prepared for:

Pet Releaf

8100 Southpark Way
Littleton, CO USA 80120

Ultra Releaf 600 XL Dogs

Batch ID or Lot Number: 2310AW	Test: Microbial Contaminants	Reported: 04Dec2023	USDA License: N/A
Matrix: Finished Product	Test ID: T000263201	Started: 30Nov2023	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 28Nov2023	Status: Active

Microbial

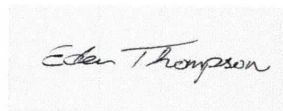
Contaminants

Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval



Brett Hudson
03Dec2023
10:56:00 AM MST



Eden Thompson-Wright
04Dec2023
09:37:00 AM MST



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/edeccf34-458e-4c78-affb-51645a3e622e>

Definitions

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU
CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
STEC = Shiga Toxin-Producing E. coli

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Cert #4329.02

CDPHE Certified

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CERTIFICATE OF ANALYSIS

Prepared for:

Pet Releaf

8100 Southpark Way
Littleton, CO USA 80120

Pet Releaf Hibiscus

Batch ID or Lot Number: 2310AW	Test: Microbial Contaminants	Reported: 27Nov2023	USDA License: N/A
Matrix: Finished Product	Test ID: T000262857	Started: 24Nov2023	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 22Nov2023	Status: Active

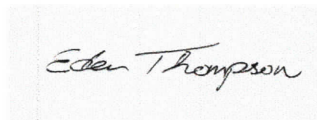
Microbial Contaminants

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval



Brett Hudson
27Nov2023
11:12:00 AM MST



Eden Thompson-Wright
27Nov2023
12:06:00 PM MST



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/d13b4e96-0628-40e8-b63a-73a73316ad82>

Definitions
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CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
STEC = Shiga Toxin-Producing E. coli

Prepared for:

Pet Releaf

8100 Southpark Way
Littleton, CO USA 80120

Pet Releaf Hibiscus

Batch ID or Lot Number: 2310AW	Test: Microbial Contaminants	Reported: 04Dec2023	USDA License: N/A
Matrix: Finished Product	Test ID: T000262858	Started: 27Nov2023	Sampler ID: NA
	Method(s):	Received: 22Nov2023	Status: NA

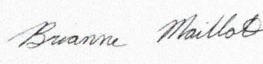
Microbial

Contaminants

Contaminants	Method	LOD	Quantitation Range	Result	Notes
<i>Staphylococcus aureus</i>	TM33: Culture Plating	10 ¹ CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter

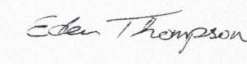
Approved: Paul Gennings QC 12-04-23

Final Approval



Brienne Maillot
04Dec2023
03:27:00 PM MST

PREPARED BY / DATE



Eden Thompson-Wright
04Dec2023
03:39:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/18fd42cb-a91e-46b5-86ea-e5cafe5624e0>

Definitions

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CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
STEC = Shiga Toxin-Producing E. coli

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DEA No. RA0571996
 FL License # CMTL-0003
 CLIA No. 10D1094068

Certificate of Analysis

Compliance Test

Pet Relief	Batch # 2210K Batch Date: 2022-11-11 Extracted From: HEMP	Test Reg State: Colorado
Order # PUL221111-010003 Order Date: 2022-11-11 Sample # AADS428	Sampling Date: 2022-11-17 Lab Batch Date: 2022-11-17 Completion Date: 2022-11-21	Initial Gross Weight: 240.400 g Net Weight: 92.304 g Number of Units: 3 Net Weight per Unit: 30768.000 mg



Product Image

Potency Tested
 Heavy Metals Passed
 Staphylococcus Aureus Passed

Potency 10 Tested
 Specimen Weight: 111.900 mg SOP13.001 (LCUV)

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	100.000	5.40E-5	0.0015	3.7700	0.3770
CBC	100.000	1.80E-5	0.0015	0.1600	0.0160
CBDa	100.000	1.00E-5	0.0015	<LOQ	<LOQ
CBDV	100.000	6.50E-5	0.0015	<LOQ	<LOQ
CBS	100.000	2.48E-4	0.0015	<LOQ	<LOQ
CBGA	100.000	8.00E-5	0.0015	<LOQ	<LOQ
CBN	100.000	1.40E-5	0.0015	<LOQ	<LOQ
Delta-9 THC	100.000	1.30E-5	0.0015	<LOQ	<LOQ
THCA-A	100.000	3.20E-5	0.0015	<LOQ	<LOQ
THCV	100.000	7.00E-6	0.0015	<LOQ	<LOQ

Potency Summary

Total Active THC None Detected	Total Active CBD 0.377% 116.000mg
Total CBG None Detected	Total CBN None Detected
Other Cannabinoids 0.016% 4.920mg	Total Cannabinoids 0.393% 120.920mg

Heavy Metals - CO Passed
 Specimen Weight: 252.190 mg SOP13.048 (ICP-MS)

Dilution Factor: 198.263

Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result	Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result
Arsenic (As)	4.83	100	1500	<LOQ	Lead (Pb)	0.58	100	500	<LOQ
Cadmium (Cd)	0.64	100	500	<LOQ	Mercury (Hg)	11.76	100	1500	<LOQ

Staphylococcus Aureus Passed
 Specimen Weight: 231.330 mg SOP13.029 (qPCR)

Dilution Factor: 1.000

Analyte	Action Limit (cfu/g)	Result
Staphylococcus aureus	1	Absence

Xueli Gao
 Xueli Gao Lab Toxicologist
 Ph.D., DABT

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 + (CBD-A * 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, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta6a10a-THC + Delta8-THC + Total CBN + CBT + Delta8-THCV + Total CBG + Total CBD + Total THCv + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate, Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration, (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) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, *Measurement of Uncertainty = +/- 10%

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CERTIFICATE OF ANALYSIS


Prepared for:
Pet Releaf
8100 Southpark Way
Littleton, CO USA 80120

PR Hibiscus

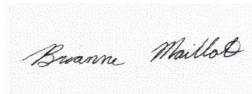
Batch ID or Lot Number: 2210K	Test: Microbial Contaminants	Reported: 21Nov2022	USDA License: N/A
Matrix: Finished Product	Test ID: T000227690	Started: 17Nov2022	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 15Nov2022	Status: Active

Microbial Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval



Brett Hudson
20Nov2022
12:44:00 PM MST



Brianne Maillot
21Nov2022
04:21:00 PM MST



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/dd64db22-5714-4680-912f-6c22cf34da20>

Definitions
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Cert #4329.02

CDPHE Certified
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APPROVED - Richie Bryan QA/QC 12/1/2022