F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

SUMMARY OF ANALYSIS (SAMPLE ID: SA35951)

Testing Location:	**Customer ID:** 2116	**Order ID:** OR10595	**Sample Type:** Primary
Arkansas	Beehive Blends	**Lot Number:**	**Matrix:** Lotion/Salve
232 S. Broadview St.	7825 S Highland Dr.	Not Entered	**Mass:** 90ml
Greenbrier, AR 72058	Cottonwood Heights, UT 84121	**Batch Number:**	**Date Collected:** 08/31/2023
License: ADA 05_H273	License: Not Entered or N/A	Not Entered	**Date Received:** 08/31/2023
Cultivar (Strain) or Sample Description: Relief Roll-On			**Date Completed:** 09/05/2023

*This page is simply a summary of the analysis performed. For analytical details, please consult the individual Certificate(s) of Analysis for each of the specific test(s) performed. All contaminant action levels are referenced from the State of Utah MMJ testing guidelines.

Moisture Content (%)	Water Activity (aw)	PASS/FAIL
Not Tested	Not Tested	PASS

Moisture content/water activity action levels are referenced from the State of Utah MMJ testing guidelines.
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
CBD	1.72	17.2
CBG	0.161	1.61
CBN	0.103	1.03
TOTAL CBD	1.72	17.2
TOTAL THC	-	-
TOTAL CANNABINOIDS	1.99	19.9

Terpenes (Top 5)	(%)	µg/g
α-Bisabolol		
Camphene		
δ-3-Carene		
β-Caryophyllene		
Caryophyllene oxide		
TOTAL TERPENES	-	-

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Mycotoxins:	PASS
Pesticides:	PASS
Residual Solvents:	FAIL

Sample Picture Upon Receipt

Scan the QR code to verify results.

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Kyle W. Felling, Ph.D.
Laboratory Director

REPORT OF LABORATORY ANALYSIS

www.FASTLaboratories.com

F.A.S.T. LABORATORIES/RESEARCH

A2LA ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35951)

Testing Location:	**Customer ID:** 2116	**Order ID:** OR10595	**Sample Type:** Primary
Arkansas	Beehive Blends	**Lot Number:**	**Matrix:** Lotion/Salve
232 S. Broadview St.	7825 S Highland Dr.	Not Entered	**Mass:** 90ml
Greenbrier, AR 72058	Cottonwood Heights, UT 84121	**Batch Number:**	**Date Collected:** 08/31/2023
License: ADA 05_H273	License: Not Entered or N/A	Not Entered	**Date Received:** 08/31/2023

Cultivar (Strain) or Sample Description: Relief Roll-On — **Date Completed:** 09/05/2023

CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 08/31/2023 2000 — **Method:** HPLC/DAD — **Moisture Content (%):** -

Analyst: PW — **Instrument:** Agilent 1100 — **Water Activity (aw):** -

Cannabinoid	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/mL)	Per Serving (mg)	Per Unit (mg)
CBC	ND	ND	0.00230	0.00537	-	-	-
CBCA	ND	ND	0.00714	0.0167	-	-	-
CBD	1.72	17.2	0.0162	0.0379	-	17.2	1550
CBDA	ND	ND	0.00597	0.0139	-	-	-
CBDV	0.00308	0.0308	0.00260	0.00608	-	0.0308	2.77
CBDVA	ND	ND	0.00694	0.0162	-	-	-
CBG	0.161	1.61	0.0105	0.0246	-	1.61	145
CBGA	ND	ND	0.0149	0.0176	-	-	-
CBL	ND	ND	0.0122	0.0284	-	-	-
CBN	0.103	1.03	0.00559	0.0131	-	1.03	93.1
CBNA	ND	ND	0.00603	0.0141	-	-	-
Δ9-THC	ND	ND	0.00670	0.0156	-	-	-
Δ8-THC	ND	ND	0.0105	0.0244	-	-	-
THCA	ND	ND	0.00363	0.00850	-	-	-
THCV	ND	ND	0.00872	0.0203	-	-	-
THCVA	ND	ND	0.00279	0.00648	-	-	-
TOTAL	1.99	19.9			-	19.9	1790
TOTAL CBC	-	-			-	-	-
TOTAL CBD	1.72	17.2			-	17.2	1550
TOTAL CBDV	0.00308	0.0308			-	0.0308	2.77
TOTAL CBG	0.161	1.61			-	1.61	145
TOTAL CBN	0.103	1.03			-	1.03	93.1
TOTAL THC	-	-			-	-	-
TOTAL THCV	-	-			-	-	-

SERVING MASS (g): 1.00
SERVINGS/UNIT: 90

"-" Not detected above LOD.

Deviations from standard operating procedure: None

Recoveries for all analyte standards: 90-110%
Replicate Uncertainties: <5% RSD, <20% RPD
Sample/Reagent Blanks: <RL for all analytes

Values for plant matter are adjusted for moisture content.

Total CBC = (CBCA x 0.877) + CBC
Total CBD = (CBDA x 0.877) + CBD
Total CBDV = (CBDVA x 0.867) + CBDV
Total CBG = (CBGA x 0.878) + CBG
Total CBN = (CBNA x 0.876) + CBN
Total THC = (THCA x 0.877) + Δ9-THC
Total THCV = (THCVA x 0.867) + THCV

Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.

Abbreviations: DAD - Diode Array Detector, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation, DET - Detected (less than LOQ), LOD - Limit of Detection, LOQ - Limit of Quantitation, UM - Measurement Uncertainty

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Laboratory Director

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ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35951)

Testing Location:
Arkansas
232 S. Broadview St.
Greenbrier, AR 72058
License: ADA 05_H273

Customer ID: 2116
Beehive Blends
7825 S Highland Dr.
Cottonwood Heights, UT 84121
License: Not Entered or N/A

Order ID: OR10595
Lot Number:
Not Entered
Batch Number:
Not Entered

Sample Type: Primary
Matrix: Lotion/Salve
Mass: 90ml
Date Collected: 08/31/2023
Date Received: 08/31/2023

Cultivar (Strain) or Sample Description: Relief Roll-On

Date Completed: 09/05/2023

TERPENOID PROFILE

Analysis Date/Time:08/31/2023 2339
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	ND	-
Camphene	ND	-
δ-3-Carene	ND	-
β-Caryophyllene	ND	-
Caryophyllene oxide	ND	-
p-Cymene	ND	-
Eucalyptol	ND	-
Geraniol	ND	-
Guaiol	ND	-
α-Humulene	ND	-
Isopulegol	ND	-
d-Limonene	ND	-
Linalool	ND	-
β-Myrcene	ND	-
cis-Nerolidol	ND	-
trans-Nerolidol	ND	-
α-Ocimene	ND	-
β-Ocimene	ND	-
α-Pinene	ND	-
β-Pinene	ND	-
α-Terpinene	ND	-
γ-Terpinene	ND	-
Terpinolene	ND	-
TOTAL	0.000	0.000

Abbreviations: GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

Abbreviations: ND - Not Detected, , LOD - Limit of Detection, LOQ - Limit of Quantitation

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Reporting Limit (µg/g): 8.41

"-" Not detected above LOD.

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Not Entered
Batch Number:
Not Entered

Sample Type: Primary
Matrix: Lotion/Salve
Mass: 90ml
Date Collected: 08/31/2023
Date Received: 08/31/2023

Cultivar (Strain) or Sample Description: Relief Roll-On

Date Completed: 09/05/2023

RESIDUAL SOLVENT PROFILE (SOP: SOP-RS-001)

Analysis Date/Time: 09/01/2023 0938
Analyst: KF

Method: HS/GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Acetone (67-64-1)	-	159	319	5000
Acetonitrile (75-5-8)	-	159	319	410
Benzene (71-43-2)	-	1.59	3.19	2
n-Butane (106-97-2)	-	159	319	5000
1-Butanol (71-36-3)	-	159	319	5000
2-Butanol (78-92-2)	-	159	319	5000
2-Butanone (78-93-3)	-	159	319	5000
Cyclohexane (110-82-7)	-	159	319	3880
1,2-Dimethoxyethane (110-71-4)	-	15.9	31.9	100
N,N-Dimethylacetamide (127-19-5)	-	159	319	1090
2,2-Dimethylbutane (75-83-2)	-	55.8	112	290
2,3-Dimethylbutane (79-29-8)	-	55.8	112	290
N,N-Dimethylformamide (68-12-2)	-	159	319	880
Dimethylsulfoxide (67-68-5)	-	159	319	5000
1,4-Dioxane (123-91-1)	-	159	319	380
Ethanol (64-17-5)	-	159	319	5000
2-Ethoxyethanol (110-80-5)	-	55.8	112	160
Ethyl ether (60-29-7)	-	159	319	5000
Ethyl acetate (141-78-6)	-	159	319	5000
Ethyl benzene (100-41-4)	-	159	319	2170
Ethylene glycol (107-21-1)	-	159	319	620
Ethylene oxide (75-21-8)	-	15.9	31.9	-

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
n-Heptane (142-82-5)	-	159	319	5000
n-Hexane (110-54-3)	-	55.8	112	290
Isobutane (75-28-5)	-	159	319	5000
Isopropanol (67-63-0)	1360000	159	319	5000
Isopropyl acetate (108-21-4)	-	159	319	5000
Isopropyl benzene (98-82-8)	-	15.9	31.9	70
Methanol (67-56-1)	-	159	319	3000
2-Methylbutane (78-78-4)	-	159	319	5000
Methylene chloride (75-9-2)	-	159	319	600
2-Methylpentane (107-83-5)	-	55.8	112	290
3-Methylpentane (96-10-0)	-	55.8	112	290
n-Pentane (109-66-0)	-	159	319	5000
1-Pentanol (71-41-0)	-	159	319	5000
n-Propane (74-98-6)	-	159	319	5000
1-Propanol (71-23-8)	-	159	319	5000
Pyridine (110-86-1)	-	55.8	112	100
Tetrahydrofuran (109-99-9)	-	159	319	720
Tetramethylene sulfone (126-33-0)	-	55.8	112	160
Toluene (108-88-3)	-	159	319	890
o-Xylene (95-47-6)	-	159	319	2170
m,p-Xylene (108-38-3 or 106-42-3)	-	159	319	2170
Xylenes* (1330-20-7)	-	43.3	86.7	2170

Color Key

RESULT < AL

RESULT > AL

"DET" detected less than LOQ

"-" not detected above LOD

"*" - o,m,p-Xylene and Ethylbenzene

Action levels are referenced from the State of Utah MMJ testing guidelines.

A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

Solvent	Synonym(s)	Solvent	Synonym(s)
Acetonitrile	Methyl Cyanide, ACN	Ethylene glycol	1,2-Ethanediol
1-Butanol	n-Butanol, Butyl Alcohol	Isobutane	2-Methylpropane
2-Butanol	sec-Butyl alcohol	Isopropanol	2-Propanol, IPA
2-Butanone	Methyl ethyl ketone, MEK	Isopropyl Acetate	Acetic acid isopropyl ester
1,2-Dimethoxyethane	Monoglyme	Methanol	Methyl alcohol
2,3-Dimethylbutane	Neohexane	2-Methylbutane	Isopentane
2,3-Dimethylbutane	Diisopropyl	Methylene chloride	Dichloromethane
N,N-Dimethylformamide	DMF	2-Methylpentane	Isohexane
Dimethysufoxide	DMSO	1-Pentanol	n-Amyl alcohol
2-Ethoxyethanol	Cellosolve, Ethyl glycol	1-Propanol	Propyl alcohol
Ethyl ether	Diethyl ether, Ether	Tetrahydrofuran	THF
Ethyl acetate	EtOAc	Tetramethylene sulfone	Sulfolane
Ethyl benzene	Phenylethane	Xylene	Dimethylbenzene

Abbreviations: HS-Headspace, GC-Gas Chromatography, MS-Mass Spectrometry, RL-Reporting Limit, AL-Action Level, CAS-Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

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Beehive Blends
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License: Not Entered or N/A

Order ID: OR10595
Lot Number:
Not Entered
Batch Number:
Not Entered

Sample Type: Primary
Matrix: Lotion/Salve
Mass: 90ml
Date Collected: 08/31/2023
Date Received: 08/31/2023

Cultivar (Strain) or Sample Description: Relief Roll-On

Date Completed: 09/05/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 08/31/2023 2020
Analyst: KF

Method: LC/MS/MS
Instrument: Shimadzu LC-8050

Deviations from SOP:
None

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0101	0.0809	0.5
Acephate (30560-19-1)	-	0.0101	0.0809	0.4
Acequinocyl (57960-19-7)	-	0.0101	0.0809	2
Acetamiprid (135410-20-7)	-	0.0101	0.0809	0.2
Aldicarb (116-06-3)	-	0.0101	0.0809	0.4
Azoxystrobin (131860-33-8)	-	0.0101	0.0809	0.2
Bifenazate (149877-41-8)	-	0.0101	0.0809	0.2
Bifenthrin (82657-04-3)	-	0.0101	0.0809	0.2
Boscalid (188425-85-6)	-	0.0101	0.0809	0.4
Carbaryl (63-25-2)	-	0.0101	0.0809	0.2
Carbofuran (1563-66-2)	-	0.0101	0.0809	0.2
Chlorantraniliprole (800008-45-7)	-	0.0101	0.0809	0.2
Chlorfenapyr (122453-73-0)	-	0.0101	0.0809	1
Chlorpyrifos (2921-88-2)	-	0.0101	0.0809	0.2
Clofentezine (74115-24-5)	-	0.0101	0.0809	0.2
Cyfluthrin (68359-37-5)	-	0.0101	0.0809	1
Cypermethrin (52315-07-8)	-	0.0101	0.0809	1
Daminozide (1596-84-5)	-	0.0101	0.0809	1
DDVP (62-73-7)	-	0.0101	0.0809	0.1
Diazinon (333-41-5)	-	0.0101	0.0809	0.2
Dimethoate (60-51-5)	-	0.0101	0.0809	0.2
Ethoprophos (13194-48-4)	-	0.0101	0.0809	0.2
Etofenprox (80844-07-1)	-	0.0101	0.0809	0.4
Etoxazole (153233-91-1)	-	0.0101	0.0809	0.2
Fenoxycarb (72490-01-8)	-	0.0101	0.0809	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0101	0.0809	0.4
Fipronil (120068-37-3)	-	0.0101	0.0809	0.4
Flonicamid (158062-67-0)	-	0.0101	0.0809	1
Fludioxinil (131341-86-1)	-	0.0101	0.0809	0.4
Hexythiazox (78587-05-0)	-	0.0101	0.0809	1
Imazalil (35554-44-0)	-	0.0101	0.0809	0.2
Imidacloprid (138261-41-3)	-	0.0101	0.0809	0.4
Kresoxim-methyl (143390-89-0)	-	0.0101	0.0809	0.4
Malathion (121-75-5)	-	0.0101	0.0809	0.2
Metalaxyl (57837-19-1)	-	0.0101	0.0809	0.2
Methiocarb (2032-65-7)	-	0.0101	0.0809	0.2
Methomyl (16752-77-5)	-	0.0101	0.0809	0.4
Methyl parathion (298-0-0)	-	0.0101	0.0809	0.2
MGK 264 (113-48-4)	-	0.0101	0.0809	0.2
Myclobutanil (88671-89-0)	-	0.0101	0.0809	0.2
Naled (300-76-5)	-	0.0101	0.0809	0.5
Oxamyl (23135-22-0)	-	0.0101	0.0809	1
Paclobutrazol (76738-62-0)	-	0.0101	0.0809	0.4
Permethrins (52645-53-1)	-	0.0101	0.0809	0.2
Phosmet (732-11-6)	-	0.0101	0.0809	0.2
Piperonyl butoxide (51-03-6)	-	0.0101	0.0809	2
Prallethrins (2331-36-9)	-	0.0101	0.0809	0.2
Propiconazole (60207-90-1))	-	0.0101	0.0809	0.4
Propoxur (114-26-1)	-	0.0101	0.0809	0.2
Pyrethrins (8003-34-7)	-	0.0101	0.0809	1
Pyridaben (96489-71-3)	-	0.0101	0.0809	0.2
Spinosad (168316-95-8)	-	0.0101	0.0809	0.2
Spiromesifen (283594-90-1)	-	0.0101	0.0809	0.2
Spirotetramat (203313-25-1)	-	0.0101	0.0809	0.2
Spiroxamine (118134-30-8)	-	0.0101	0.0809	0.4
Tebuconazole (80443-41-0)	-	0.0101	0.0809	0.4
Thiacloprid (111988-49-9)	-	0.0101	0.0809	0.2
Thiamethoxam (153719-23-4)	-	0.0101	0.0809	0.2
Trifloxystrobin (141517-21-7)	-	0.0101	0.0809	0.2

Color Key

RESULT < AL

RESULT > AL

"DET" detected less than LOQ

"-" not detected above LOD

Permethrins measured as the cumulative residue of the *cis*- and *trans*- permethrin isomers.

Pyrethrins measured as the cumulative residue of the pyrethrin I, cinerin I, and jasmolin I isomers.

Action levels are referenced from the State of Utah MMJ testing guidelines.

A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

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Abbreviations: LC - Liquid Chromatography,MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

Pesticide	Synonym(s)	Pesticide	Synonym(s)	Pesticide	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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Laboratory Director

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Greenbrier, AR 72058	Cottonwood Heights, UT 84121	**Batch Number:**	**Date Collected:** 08/31/2023
License: ADA 05_H273	License: Not Entered or N/A	Not Entered	**Date Received:** 08/31/2023

Cultivar (Strain) or Sample Description: Relief Roll-On — **Date Completed:** 09/05/2023

MYCOTOXIN PROFILE (SOP: SOP-MYCO-001)

Analysis Date/Time: 08/31/2023 2020 — **Method:** LC/MS/MS — **Deviations from SOP:**

Analyst: KF — **Instrument:** Shimadzu LC-8050 — None

Mycotoxin	Result (µg/kg)	Action Level (µg/kg)
Aflatoxin B1	-	20
Aflatoxin B2	-	20
Aflatoxin G1	-	20
Aflatoxin G2	-	20
Ochratoxin A	-	20

Abbreviations: LC - Liquid Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level

Color Key

RESULT < AL

RESULT > AL

Reporting Limit (µg/kg)
Action Level

"-" not detected above reporting limit

Action levels for mycotoxins are referenced from the State of Utah MMJ testing guidelines.
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Greenbrier, AR 72058	Cottonwood Heights, UT 84121	**Batch Number:**	**Date Collected:** 08/31/2023
License: ADA 05_H273	License: Not Entered or N/A	Not Entered	**Date Received:** 08/31/2023
Cultivar (Strain) or Sample Description: Relief Roll-On			**Date Completed:** 09/05/2023

HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 08/31/2023 2123 (ICP/OES)
Analysis Date/Time: - (DMA)
Analyst: KF

Method: ICP/MS
Instrument: Agilent 7500ce

Deviations from SOP:
None

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	54.9	86.9	2000
Cadmium (Cd)	-	54.9	86.9	820
Lead (Pb)	-	54.9	86.9	1200
Mercury (Hg)	-	54.9	86.9	400

Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy,
DMA - Direct Mercury Analyzer, RL - Reporting Limit, AL - Action Level, LOD - Limit of Detection, LOQ - Limit of Quantitation

Color Key

RESULT < AL

RESULT > AL

"DET" detected less than LOQ

"-" not detected above LOD

Action levels for heavy metals are referenced from the State of Utah MMJ testing guidelines.

Disclaimer: This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

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Laboratory Director

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F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35951)

Testing Location:	**Customer ID:** 2116	**Sample ID:** SA35951	**Sample Type:** Primary
Arkansas	Beehive Blends	**Lot Number:**	**Matrix:** Lotion/Salve
232 S. Broadview St.	7825 S Highland Dr.	Not Entered	**Mass:** 90ml
Greenbrier, AR 72058	Cottonwood Heights, UT 84121	**Batch Number:**	**Date Collected:** 08/31/2023
License: ADA 05_H273	License: Not Entered or N/A	Not Entered	**Date Received:** 08/31/2023
Cultivar (Strain) or Sample Description: Relief Roll-On			**Date Completed:** 09/05/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 09/01/2023 1025
Analyst: PW
Method: Hardy Diagnostics CompactDry
Instrument: Thermo Incubator
Deviations from SOP: None

Bacteria/Microbe	Result (CFU/g)	Action Level (CFU/g)
Aerobic Plate Count	Absent	100
Coliforms, Total	Absent	-
Escherichia Coli (E. Coli)	Absent	1
Mold/Yeast	Absent	100
Pseudomonas aeruginosa	NT	-
Salmonella spp.	Absent	1
Staphylococcus aureus	Absent	1

Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, TNTC - Too Numerous To Count, NT - Not Tested
Absent - Not Detected Above RL, Present - Detected Above RL

Color Key

RESULT < AL

RESULT > AL

Reporting Limit (CFU/g)
1

Action levels for microbiology are referenced from the State of Utah MMJ testing guidelines.
A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

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