F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

SUMMARY OF ANALYSIS (SAMPLE ID: SA37427)

Testing Location:	**Customer ID:** 2240	**Order ID:** OR10917	**Sample Type:** Primary
Arkansas	MaxOrizonz LLC	**Lot Number:**	**Matrix:** Lotion/Salve
232 S. Broadview St.	PO Box 3373	Not Entered	**Mass:** 1fl oz
Greenbrier, AR 72058	Pearland, TX 77588	**Batch Number:**	**Date Collected:** 03/07/2024
License: ADA 05_H273	License: Not Entered or N/A	Not Entered	**Date Received:** 03/20/2024

Cultivar (Strain) or Sample Description: Peppermint Cinnamon Salve — **Date Completed:** 03/22/2024

*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 Arkansas 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 Arkansas 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
Δ8-THC	1.82	18.2
Δ9-THC	0.171	1.71
CBD	0.00639	0.0639
TOTAL CBD	0.00639	0.0639
TOTAL THC	0.171	1.71
TOTAL CANNABINOIDS	2.00	20.0

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

Sample Picture Upon Receipt

Scan the QR code to verify results.

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Kyle W. Felling, Ph.D.
Laboratory Director

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A2LA ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37427)

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

Customer ID: 2240
MaxOrizonz LLC
PO Box 3373
Pearland, TX 77588
License: Not Entered or N/A

Order ID: OR10917
Lot Number:
Not Entered
Batch Number:
Not Entered

Sample Type: Primary
Matrix: Lotion/Salve
Mass: 1fl oz
Date Collected: 03/07/2024
Date Received: 03/20/2024

Cultivar (Strain) or Sample Description: Peppermint Cinnamon Salve

Date Completed: 03/22/2024

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

Analysis Date/Time: 03/20/2024 1247
Analyst: PW

Method: HPLC/DAD
Instrument: Agilent 1100

Moisture Content (%): -
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	0.00222	0.00517	-	-	-
CBCA	ND	ND	0.00688	0.0161	-	-	-
CBD	0.00639	0.0639	0.0156	0.0365	-	0.0639	1.92
CBDA	ND	ND	0.00575	0.0134	-	-	-
CBDV	0.00297	0.0297	0.00251	0.00585	-	0.0297	0.891
CBDVA	ND	ND	0.00669	0.0156	-	-	-
CBG	ND	ND	0.0101	0.0237	-	-	-
CBGA	ND	ND	0.0144	0.0170	-	-	-
CBL	ND	ND	0.0117	0.0274	-	-	-
CBN	ND	ND	0.00538	0.0126	-	-	-
CBNA	ND	ND	0.00581	0.0135	-	-	-
Δ9-THC	0.171	1.71	0.00645	0.0150	-	1.71	51.4
Δ8-THC	1.82	18.2	0.0101	0.0235	-	18.2	547
THCA	ND	ND	0.00350	0.00818	-	-	-
THCV	ND	ND	0.00840	0.0196	-	-	-
THCVA	ND	ND	0.00268	0.00624	-	-	-
TOTAL	2.00	20.0			-	20.0	601
TOTAL CBC	-	-			-	-	-
TOTAL CBD	0.00639	0.0639			-	0.0639	1.92
TOTAL CBDV	0.00297	0.0297			-	0.0297	0.891
TOTAL CBG	-	-			-	-	-
TOTAL CBN	-	-			-	-	-
TOTAL THC	0.171	1.71			-	1.71	51.4
TOTAL THCV	-	-			-	-	-

SERVING MASS (g): 1.00
SERVINGS/UNIT: 30

"-" 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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License: ADA 05_H273	License: Not Entered or N/A	Not Entered	**Date Received:** 03/20/2024

Cultivar (Strain) or Sample Description: Peppermint Cinnamon Salve — **Date Completed:** 03/22/2024

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

Analysis Date/Time: 03/21/2024 1442 — **Method:** HS/GC/MS — **Deviations from SOP:**

Analyst: KF — **Instrument:** Agilent 7890/5975 — None

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Acetone (67-64-1)	-	137	273	5000
Acetonitrile (75-5-8)	-	137	273	410
Benzene (71-43-2)	-	1.37	2.73	2
n-Butane (106-97-2)	-	137	273	5000
1-Butanol (71-36-3)	-	137	273	5000
2-Butanol (78-92-2)	-	137	273	5000
2-Butanone (78-93-3)	-	137	273	5000
Cyclohexane (110-82-7)	-	137	273	3880
1,2-Dimethoxyethane (110-71-4)	-	13.7	27.3	100
N,N-Dimethylacetamide (127-19-5)	-	137	273	1090
2,2-Dimethylbutane (75-83-2)	-	47.8	95.6	290
2,3-Dimethylbutane (79-29-8)	-	47.8	95.6	290
N,N-Dimethylformamide (68-12-2)	-	137	273	880
Dimethylsulfoxide (67-68-5)	-	137	273	5000
1,4-Dioxane (123-91-1)	-	137	273	380
Ethanol (64-17-5)	-	137	273	5000
2-Ethoxyethanol (110-80-5)	-	47.8	95.6	160
Ethyl ether (60-29-7)	-	137	273	5000
Ethyl acetate (141-78-6)	-	137	273	5000
Ethyl benzene (100-41-4)	-	137	273	2170
Ethylene glycol (107-21-1)	-	137	273	620
Ethylene oxide (75-21-8)	-	13.7	27.3	50

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
n-Heptane (142-82-5)	-	137	273	5000
n-Hexane (110-54-3)	-	47.8	95.6	290
Isobutane (75-28-5)	-	137	273	5000
Isopropanol (67-63-0)	-	137	273	5000
Isopropyl acetate (108-21-4)	-	137	273	5000
Isopropyl benzene (98-82-8)	-	13.7	27.3	70
Methanol (67-56-1)	-	137	273	3000
2-Methylbutane (78-78-4)	-	137	273	5000
Methylene chloride (75-9-2)	-	137	273	600
2-Methylpentane (107-83-5)	-	47.8	95.6	290
3-Methylpentane (96-10-0)	-	47.8	95.6	290
n-Pentane (109-66-0)	-	137	273	5000
1-Pentanol (71-41-0)	-	137	273	5000
n-Propane (74-98-6)	-	137	273	5000
1-Propanol (71-23-8)	-	137	273	5000
Pyridine (110-86-1)	-	47.8	95.6	200
Tetrahydrofuran (109-99-9)	-	137	273	720
Tetramethylene sulfone (126-33-0)	-	47.8	95.6	160
Toluene (108-88-3)	-	137	273	890
o-Xylene (95-47-6)	-	137	273	2170
m,p-Xylene (108-38-3 or 106-42-3)	-	137	273	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 Arkansas 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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License: ADA 05_H273	License: Not Entered or N/A	Not Entered	**Date Received:** 03/20/2024

Cultivar (Strain) or Sample Description: Peppermint Cinnamon Salve

Date Completed: 03/22/2024

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 03/20/2024 1330

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)	-	0.00979	0.0783	0.5
Acephate (30560-19-1)	-	0.00979	0.0783	0.4
Acequinocyl (57960-19-7)	-	0.00979	0.0783	2
Acetamiprid (135410-20-7)	-	0.00979	0.0783	0.2
Aldicarb (116-06-3)	-	0.00979	0.0783	0.4
Azoxystrobin (131860-33-8)	-	0.00979	0.0783	0.2
Bifenazate (149877-41-8)	-	0.00979	0.0783	0.2
Bifenthrin (82657-04-3)	-	0.00979	0.0783	0.2
Boscalid (188425-85-6)	-	0.00979	0.0783	0.4
Carbaryl (63-25-2)	-	0.00979	0.0783	0.2
Carbofuran (1563-66-2)	-	0.00979	0.0783	0.2
Chlorantraniliprole (800008-45-7)	-	0.00979	0.0783	0.2
Chlorfenapyr (122453-73-0)	-	0.00979	0.0783	1
Chlorpyrifos (2921-88-2)	-	0.00979	0.0783	0.2
Clofentezine (74115-24-5)	-	0.00979	0.0783	0.2
Cyfluthrin (68359-37-5)	-	0.00979	0.0783	1
Cypermethrin (52315-07-8)	-	0.00979	0.0783	1
Daminozide (1596-84-5)	-	0.00979	0.0783	1
DDVP (62-73-7)	-	0.00979	0.0783	0.1
Diazinon (333-41-5)	-	0.00979	0.0783	0.2
Dimethoate (60-51-5)	-	0.00979	0.0783	0.2
Ethoprophos (13194-48-4)	-	0.00979	0.0783	0.2
Etofenprox (80844-07-1)	-	0.00979	0.0783	0.4
Etoxazole (153233-91-1)	-	0.00979	0.0783	0.2
Fenoxycarb (72490-01-8)	-	0.00979	0.0783	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.00979	0.0783	0.4
Fipronil (120068-37-3)	-	0.00979	0.0783	0.4
Flonicamid (158062-67-0)	-	0.00979	0.0783	1
Fludioxinil (131341-86-1)	-	0.00979	0.0783	0.4
Hexythiazox (78587-05-0)	-	0.00979	0.0783	1
Imazalil (35554-44-0)	-	0.00979	0.0783	0.2
Imidacloprid (138261-41-3)	-	0.00979	0.0783	0.4
Kresoxim-methyl (143390-89-0)	-	0.00979	0.0783	0.4
Malathion (121-75-5)	-	0.00979	0.0783	0.2
Metalaxyl (57837-19-1)	-	0.00979	0.0783	0.2
Methiocarb (2032-65-7)	-	0.00979	0.0783	0.2
Methomyl (16752-77-5)	-	0.00979	0.0783	0.4
Methyl parathion (298-0-0)	-	0.00979	0.0783	0.2
MGK 264 (113-48-4)	-	0.00979	0.0783	0.2
Myclobutanil (88671-89-0)	-	0.00979	0.0783	0.2
Naled (300-76-5)	-	0.00979	0.0783	0.5
Oxamyl (23135-22-0)	-	0.00979	0.0783	1
Paclobutrazol (76738-62-0)	-	0.00979	0.0783	0.4
Permethrins (52645-53-1)	-	0.00979	0.0783	0.2
Phosmet (732-11-6)	-	0.00979	0.0783	0.2
Piperonyl butoxide (51-03-6)	-	0.00979	0.0783	2
Prallethrins (2331-36-9)	-	0.00979	0.0783	0.2
Propiconazole (60207-90-1))	-	0.00979	0.0783	0.4
Propoxur (114-26-1)	-	0.00979	0.0783	0.2
Pyrethrins (8003-34-7)	-	0.00979	0.0783	1
Pyridaben (96489-71-3)	-	0.00979	0.0783	0.2
Spinosad (168316-95-8)	-	0.00979	0.0783	0.2
Spiromesifen (283594-90-1)	-	0.00979	0.0783	0.2
Spirotetramat (203313-25-1)	-	0.00979	0.0783	0.2
Spiroxamine (118134-30-8)	-	0.00979	0.0783	0.4
Tebuconazole (80443-41-0)	-	0.00979	0.0783	0.4
Thiacloprid (111988-49-9)	-	0.00979	0.0783	0.2
Thiamethoxam (153719-23-4)	-	0.00979	0.0783	0.2
Trifloxystrobin (141517-21-7)	-	0.00979	0.0783	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 Arkansas MMJ testing guidelines.

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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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Cultivar (Strain) or Sample Description: Peppermint Cinnamon Salve — **Date Completed:** 03/22/2024

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

Analysis Date/Time: 03/21/2024 1826 (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)	-	58.7	93.0	200
Cadmium (Cd)	-	58.7	93.0	200
Lead (Pb)	-	58.7	93.0	500
Mercury (Hg)	-	58.7	93.0	100

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

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RESULT > AL

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"-" not detected above LOD

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

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Cultivar (Strain) or Sample Description: Peppermint Cinnamon Salve — **Date Completed:** 03/22/2024

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 03/21/2024 1403 — **Method:** Hardy Diagnostics CompactDry — **Deviations from SOP:**
Analyst: PW — **Instrument:** Thermo Incubator — None

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

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 Arkansas MMJ testing guidelines.
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