F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

SUMMARY OF ANALYSIS (SAMPLE ID: SA34404)

Testing Location:	**Customer ID:** 2097	**Order ID:** OR10302	**Sample Type:** Primary
Arkansas	SummaForte	**Lot Number:**	**Matrix:** Patch
232 S. Broadview St.	520 S. Walnut St, #1063	231803	**Mass:** 2.911g
Greenbrier, AR 72058	Bloomington, IN 47402	**Batch Number:**	**Date Collected:** 02/10/2023
License: ADA 05_H273	License: Not Entered or N/A	Not Entered	**Date Received:** 02/10/2023
Cultivar (Strain) or Sample Description: SummaForte Standard			**Date Completed:** 02/17/2023

*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 Arkansas MMJ testing guidelines.

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

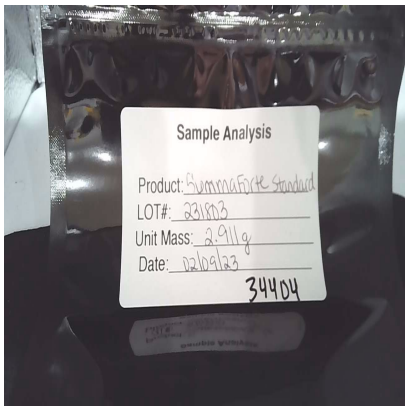
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
CBD	0.459	4.59
CBDA		-
CBDV		-
TOTAL CBD	0.459	4.59
TOTAL THC	-	-
TOTAL CANNABINOIDS	0.459	4.59

Terpenes (Top 5)	(%)	µg/g
Guaiol	0.0232	232
α-Bisabolol	0.000	0.000
Camphene	0.000	0.000
δ-3-Carene	0.000	0.000
β-Caryophyllene	0.000	0.000
TOTAL TERPENES	0.0232	232

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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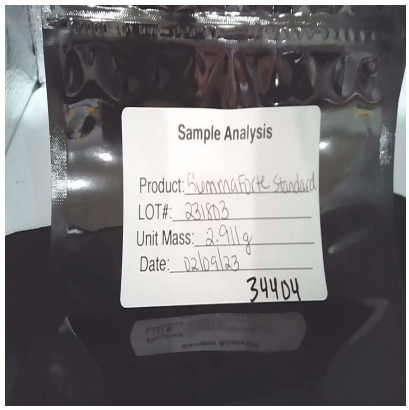
Cultivar (Strain) or Sample Description: SummaForte Standard — **Date Completed:** 02/17/2023

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

Analysis Date/Time: 2/14/2023 1602 — **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	0.0165	0.0384	-	-	-
CBCA	ND	ND	0.0512	0.119	-	-	-
CBD	0.459	4.59	0.116	0.271	-	13.4	13.4
CBDA	ND	ND	0.0428	0.0999	-	-	-
CBDV	ND	ND	0.0186	0.0435	-	-	-
CBDVA	ND	ND	0.0497	0.116	-	-	-
CBG	ND	ND	0.0754	0.176	-	-	-
CBGA	ND	ND	0.0540	0.126	-	-	-
CBL	ND	ND	0.0871	0.203	-	-	-
CBN	ND	ND	0.0400	0.0935	-	-	-
CBNA	ND	ND	0.0432	0.101	-	-	-
Δ9-THC	ND	ND	0.0480	0.112	-	-	-
Δ8-THC	ND	ND	0.0749	0.175	-	-	-
THCA	ND	ND	0.0260	0.0608	-	-	-
THCV	ND	ND	0.0624	0.146	-	-	-
THCVA	ND	ND	0.0199	0.0464	-	-	-
TOTAL	0.459	4.59			-	13.4	13.4
TOTAL CBC	-	-			-	-	-
TOTAL CBD	0.459	4.59			-	13.4	13.4
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	-	-			-	-	-
TOTAL CBN	-	-			-	-	-
TOTAL THC	-	-			-	-	-
TOTAL THCV	-	-			-	-	-



SERVING MASS (g): 2.91
SERVINGS/UNIT: 1

* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.

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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"-" 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.

Kyle W. Felling, Ph.D.
Laboratory Director

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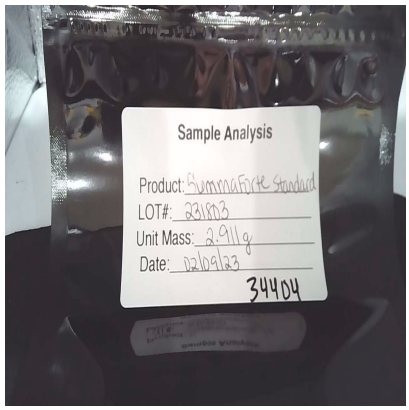
Cultivar (Strain) or Sample Description: SummaForte Standard — **Date Completed:** 02/17/2023

TERPENOID PROFILE

Analysis Date/Time:02/15/2023 2044 — **Method:** GC/MS — **Deviations from SOP:**

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

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	-	-
Camphene	-	-
δ-3-Carene	-	-
β-Caryophyllene	-	-
Caryophyllene oxide	-	-
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	232	0.0232
α-Humulene	-	-
Isopulegol	-	-
d-Limonene	-	-
Linalool	-	-
β-Myrcene	-	-
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	-	-
α-Pinene	-	-
β-Pinene	-	-
α-Terpinene	-	-
γ-Terpinene	-	-
Terpinolene	-	-
TOTAL	232	0.0232



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 13.8

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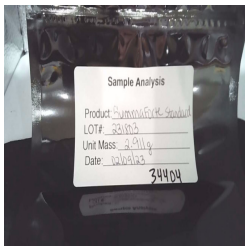
Cultivar (Strain) or Sample Description: SummaForte Standard			**Date Completed:** 02/17/2023

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

Analysis Date/Time: 7/13/2023 2231	**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)	-	38.0	76.0	5000
Acetonitrile (75-5-8)	-	38.0	76.0	410
Benzene (71-43-2)	-	0.380	0.760	2
n-Butane (106-97-2)	-	38.0	76.0	5000
1-Butanol (71-36-3)	-	38.0	76.0	5000
2-Butanol (78-92-2)	-	38.0	76.0	5000
2-Butanone (78-93-3)	-	38.0	76.0	5000
Cyclohexane (110-82-7)	-	38.0	76.0	3880
1,2-Dimethoxyethane (110-71-4)	-	3.80	7.60	100
N,N-Dimethylacetamide (127-19-5)	-	38.0	76.0	1090
2,2-Dimethylbutane (75-83-2)	-	13.3	26.6	290
2,3-Dimethylbutane (79-29-8)	-	13.3	26.6	290
N,N-Dimethylformamide (68-12-2)	-	38.0	76.0	880
Dimethylsulfoxide (67-68-5)	-	38.0	76.0	5000
1,4-Dioxane (123-91-1)	-	38.0	76.0	380
Ethanol (64-17-5)	-	38.0	76.0	5000
2-Ethoxyethanol (110-80-5)	-	13.3	26.6	160
Ethyl ether (60-29-7)	-	38.0	76.0	5000
Ethyl acetate (141-78-6)	-	38.0	76.0	5000
Ethyl benzene (100-41-4)	-	38.0	76.0	2170
Ethylene glycol (107-21-1)	-	38.0	76.0	620
Ethylene oxide (75-21-8)	-	3.80	7.60	50

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
n-Heptane (142-82-5)	-	38.0	76.0	5000
n-Hexane (110-54-3)	-	13.3	26.6	290
Isobutane (75-28-5)	-	38.0	76.0	5000
Isopropanol (67-63-0)	-	38.0	76.0	5000
Isopropyl acetate (108-21-4)	-	38.0	76.0	5000
Isopropyl benzene (98-82-8)	-	3.80	7.60	70
Methanol (67-56-1)	-	38.0	76.0	3000
2-Methylbutane (78-78-4)	-	38.0	76.0	5000
Methylene chloride (75-9-2)	-	38.0	76.0	600
2-Methylpentane (107-83-5)	-	13.3	26.6	290
3-Methylpentane (96-10-0)	-	13.3	26.6	290
n-Pentane (109-66-0)	-	38.0	76.0	5000
1-Pentanol (71-41-0)	-	38.0	76.0	5000
n-Propane (74-98-6)	-	38.0	76.0	5000
1-Propanol (71-23-8)	-	38.0	76.0	5000
Pyridine (110-86-1)	-	13.3	26.6	200
Tetrahydrofuran (109-99-9)	-	38.0	76.0	720
Tetramethylene sulfone (126-33-0)	-	13.3	26.6	160
Toluene (108-88-3)	-	38.0	76.0	890
o-Xylene (95-47-6)	-	38.0	76.0	2170
m,p-Xylene (108-38-3 or 106-42-3)	-	38.0	76.0	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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REPORT OF LABORATORY ANALYSIS

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SummaForte
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License: Not Entered or N/A

Order ID: OR10302
Lot Number:
231803
Batch Number:
Not Entered

Sample Type: Primary
Matrix: Patch
Mass: 2.911g
Date Collected: 02/10/2023
Date Received: 02/10/2023

Cultivar (Strain) or Sample Description: SummaForte Standard

Date Completed: 02/17/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 02/15/2023 1634
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)	-	0.0138	0.111	0.5
Acephate (30560-19-1)	-	0.0138	0.111	0.4
Acequinocyl (57960-19-7)	-	0.0138	0.111	2
Acetamiprid (135410-20-7)	-	0.0138	0.111	0.2
Aldicarb (116-06-3)	-	0.0138	0.111	0.4
Azoxystrobin (131860-33-8)	-	0.0138	0.111	0.2
Bifenazate (149877-41-8)	-	0.0138	0.111	0.2
Bifenthrin (82657-04-3)	-	0.0138	0.111	0.2
Boscalid (188425-85-6)	-	0.0138	0.111	0.4
Carbaryl (63-25-2)	-	0.0138	0.111	0.2
Carbofuran (1563-66-2)	-	0.0138	0.111	0.2
Chlorantraniliprole (800008-45-7)	-	0.0138	0.111	0.2
Chlorfenapyr (122453-73-0)	-	0.0138	0.111	1
Chlorpyrifos (2921-88-2)	-	0.0138	0.111	0.2
Clofentezine (74115-24-5)	-	0.0138	0.111	0.2
Cyfluthrin (68359-37-5)	-	0.0138	0.111	1
Cypermethrin (52315-07-8)	-	0.0138	0.111	1
Daminozide (1596-84-5)	-	0.0138	0.111	1
DDVP (62-73-7)	-	0.0138	0.111	0.1
Diazinon (333-41-5)	-	0.0138	0.111	0.2
Dimethoate (60-51-5)	-	0.0138	0.111	0.2
Ethoprophos (13194-48-4)	-	0.0138	0.111	0.2
Etofenprox (80844-07-1)	-	0.0138	0.111	0.4
Etoxazole (153233-91-1)	-	0.0138	0.111	0.2
Fenoxycarb (72490-01-8)	-	0.0138	0.111	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0138	0.111	0.4
Fipronil (120068-37-3)	-	0.0138	0.111	0.4
Flonicamid (158062-67-0)	-	0.0138	0.111	1
Fludioxinil (131341-86-1)	-	0.0138	0.111	0.4
Hexythiazox (78587-05-0)	-	0.0138	0.111	1
Imazalil (35554-44-0)	-	0.0138	0.111	0.2
Imidacloprid (138261-41-3)	-	0.0138	0.111	0.4
Kresoxim-methyl (143390-89-0)	-	0.0138	0.111	0.4
Malathion (121-75-5)	-	0.0138	0.111	0.2
Metalaxyl (57837-19-1)	-	0.0138	0.111	0.2
Methiocarb (2032-65-7)	-	0.0138	0.111	0.2
Methomyl (16752-77-5)	-	0.0138	0.111	0.4
Methyl parathion (298-0-0)	-	0.0138	0.111	0.2
MGK 264 (113-48-4)	-	0.0138	0.111	0.2
Myclobutanil (88671-89-0)	-	0.0138	0.111	0.2
Naled (300-76-5)	-	0.0138	0.111	0.5
Oxamyl (23135-22-0)	-	0.0138	0.111	1
Paclobutrazol (76738-62-0)	-	0.0138	0.111	0.4
Permethrins (52645-53-1)	-	0.0138	0.111	0.2
Phosmet (732-11-6)	-	0.0138	0.111	0.2
Piperonyl butoxide (51-03-6)	-	0.0138	0.111	2
Prallethrins (2331-36-9)	-	0.0138	0.111	0.2
Propiconazole (60207-90-1))	-	0.0138	0.111	0.4
Propoxur (114-26-1)	-	0.0138	0.111	0.2
Pyrethrins (8003-34-7)	-	0.0138	0.111	1
Pyridaben (96489-71-3)	-	0.0138	0.111	0.2
Spinosad (168316-95-8)	-	0.0138	0.111	0.2
Spiromesifen (283594-90-1)	-	0.0138	0.111	0.2
Spirotetramat (203313-25-1)	-	0.0138	0.111	0.2
Spiroxamine (118134-30-8)	-	0.0138	0.111	0.4
Tebuconazole (80443-41-0)	-	0.0138	0.111	0.4
Thiacloprid (111988-49-9)	-	0.0138	0.111	0.2
Thiamethoxam (153719-23-4)	-	0.0138	0.111	0.2
Trifloxystrobin (141517-21-7)	-	0.0138	0.111	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.

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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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ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34404)

Testing Location:	**Customer ID:** 2097	**Order ID:** OR10302	**Sample Type:** Primary
Arkansas	SummaForte	**Lot Number:**	**Matrix:** Patch
232 S. Broadview St.	520 S. Walnut St, #1063	231803	**Mass:** 2.911g
Greenbrier, AR 72058	Bloomington, IN 47402	**Batch Number:**	**Date Collected:** 02/10/2023
License: ADA 05_H273	License: Not Entered or N/A	Not Entered	**Date Received:** 02/10/2023
Cultivar (Strain) or Sample Description: SummaForte Standard			**Date Completed:** 02/17/2023

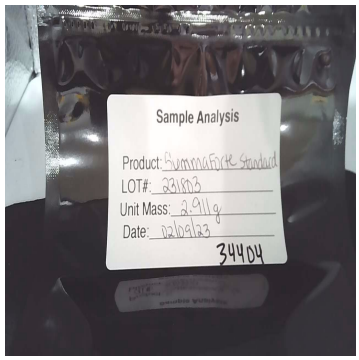
HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 02/15/2023 0614 (ICP/OES)
Analysis Date/Time: - (DMA)
Analyst: KF

Method: ICP/OES
Instrument: Agilent 720-ES

Deviations from SOP:
None

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	58.2	92.2	200
Cadmium (Cd)	-	58.2	92.2	200
Lead (Pb)	-	58.2	92.2	500
Mercury (Hg)	-	58.2	92.2	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

RESULT < AL

RESULT > AL

"DET" detected less than LOQ

"-" not detected above LOD

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

Kyle W. Felling, Ph.D.
Laboratory Director

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A2LA ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

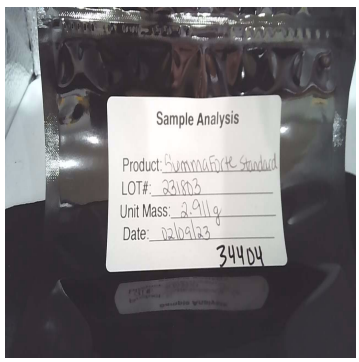
CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34404)

Testing Location:	**Customer ID:** 2097	**Sample ID:** SA34404	**Sample Type:** Primary
Arkansas	Pocono Pharmaceutical	**Lot Number:**	**Matrix:** Patch
232 S. Broadview St.	100 Sweetree St	231803	**Mass:** 2.911g
Greenbrier, AR 72058	Cherryville , NC 28021	**Batch Number:**	**Date Collected:** 02/10/2023
License: ADA 05_H273	License: Not Entered or N/A	Not Entered	**Date Received:** 02/10/2023
Cultivar (Strain) or Sample Description: SummaForte Standard			**Date Completed:** 02/17/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20230215 1515
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	NT	-
Coliforms, Total	Absent	1
Escherichia Coli (E. Coli)	Absent	100
Mold/Yeast	Absent	-
Pseudomonas aeruginosa	Absent	1
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.
A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

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