F.A.S.T. LABORATORIES/RESEARCH

Arkansas Location
232 S Broadview St
Greenbrier, AR 72058
(501) 679-2616

Oklahoma City Location
3680 E I-240 Service Rd
Oklahoma City, OK 73135
(405) 595-0344

Tulsa Location
14720 E Admiral Pl, Ste H
Tulsa, OK 74108
(918) 340-7139

SUMMARY OF ANALYSIS (SAMPLE ID: SA27232)

Testing Location:	**Customer ID:** 710	**Order ID:** OR8487	**Sample Type:** Primary
OKC	Sunday Extracts	**Lot Number:**	**Matrix:** Concentrate
3680 E. I-240 Service Rd.	1006 North Oak St	Not Entered	**Mass:** 2g
Oklahoma City, OK 73135	Guthrie, OK 73044	**Batch Number:**	**Date Collected:** 05/18/2020
License: LAAA-4Y4X-Z72Z	License: PAAA-NYIN-5SXK	RDS507MDMC900	**Date Received:** 05/18/2020

Cultivar (Strain) or Sample Description: Mandarin Dream/ Mandarin Cookie **Date Completed:** 05/22/2020

*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.

*For Oklahoma, with the new OMMA rules to be effective April 1, 2020, limits on moisture are proposed at 15% and water activity at 0.65aw.

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

Cannabinoids (Top 3)	(%)	mg/g
THCa	78.3	783
Δ9-THC	0.718	7
CBDa	0.245	2
TOTAL CBD	0.215	2
TOTAL THC	69.4	694
TOTAL CANNABINOIDS	79.2	792

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	2.494	24943
α-Humulene	1.308	13079
β-Myrcene	0.496	4964
d-Limonene	0.428	4283
β-Pinene	0.269	2687
TOTAL TERPENES	5.77	57683

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

Sample Picture Upon Receipt

Scan the QR code to verify results.

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

www.FASTLaboratories.com

F.A.S.T. LABORATORIES/RESEARCH

Arkansas Location
232 S Broadview St
Greenbrier, AR 72058
(501) 679-2616

Oklahoma City Location
3680 E I-240 Service Rd
Oklahoma City, OK 73135
(405) 595-0344

Tulsa Location
14720 E Admiral Pl, Ste H
Tulsa, OK 74108
(918) 340-7139

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA27232)

Testing Location:
OKC
3680 E. I-240 Service Rd.
Oklahoma City, OK 73135
License: LAAA-4Y4X-Z72Z

Customer ID: 710
Sunday Extracts
1006 North Oak St
Guthrie, OK 73044
License: PAAA-NYIN-5SXK

Order ID: OR8487
Lot Number:
Not Entered
Batch Number:
RDS507MDMC900

Sample Type: Primary
Matrix: Concentrate
Mass: 2g
Date Collected: 05/18/2020
Date Received: 05/18/2020

Cultivar (Strain) or Sample Description: Mandarin Dream/ Mandarin Cookie

Date Completed: 05/22/2020

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 05/22/2020 1400
Analyst: WW

Method: HPLC/DAD
Instrument: Agilent 1100

Moisture Content (%): -
Water Activity (aw): -

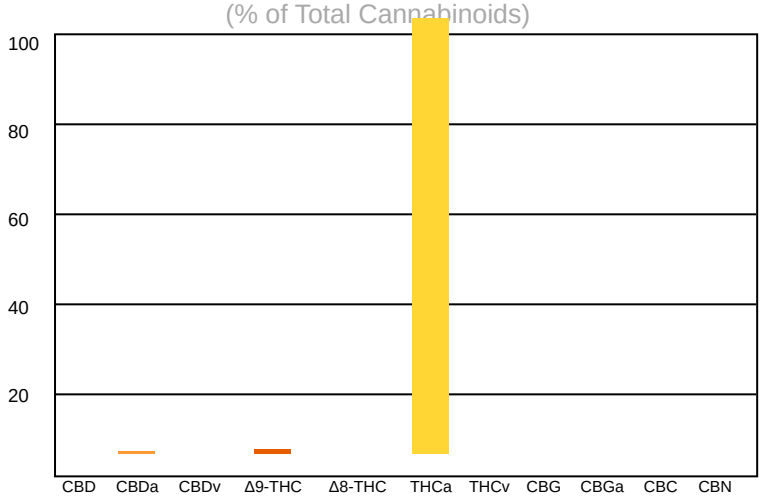
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.505	-	-
CBDa	0.245	2.45	0.505	-	2
CBDv	-	-	0.505	-	-
Δ9-THC	0.718	7.18	0.505	-	7
Δ8-THC	-	-	0.505	-	-
THCa	78.3	783	0.505	-	783
THCv	-	-	0.505	-	-
CBC	-	-	0.505	-	-
CBG	-	-	0.505	-	-
CBGa	-	-	0.505	-	-
CBN	-	-	0.505	-	-
TOTAL	79.2	792		-	792
TOTAL THC	69.4	694		-	694
TOTAL CBD	0.215	2		-	2

UNIT MASS (g): 1

"-" Not detected above RL.

Cannabinoid Distribution

(% of Total Cannabinoids)



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 THC = (THCa x 0.877) + Δ9-THC
Total CBD = (CBDa x 0.877) + CBD

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

Abbreviations: UV - Ultraviolet, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation

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

F.A.S.T. LABORATORIES/RESEARCH

Arkansas Location
232 S Broadview St
Greenbrier, AR 72058
(501) 679-2616

Oklahoma City Location
3680 E I-240 Service Rd
Oklahoma City, OK 73135
(405) 595-0344

Tulsa Location
14720 E Admiral Pl, Ste H
Tulsa, OK 74108
(918) 340-7139

SUMMARY OF ANALYSIS (SAMPLE ID: SA27232)

Testing Location:
OKC
3680 E. I-240 Service Rd.
Oklahoma City, OK 73135
License: LAAA-4Y4X-Z72Z

Customer ID: 710
Sunday Extracts
1006 North Oak St
Guthrie, OK 73044
License: PAAA-NYIN-5SXK

Order ID: OR8487
Lot Number:
Not Entered
Batch Number:
RDS507MDMC900

Sample Type: Primary
Matrix: Concentrate
Mass: 2g
Date Collected: 05/18/2020
Date Received: 05/18/2020

Cultivar (Strain) or Sample Description: Mandarin Dream/ Mandarin Cookie

Date Completed: 05/22/2020

TERPENOID PROFILE

Analysis Date/Time: 05/22/2020 1400
Analyst: DJ

Method: HS/GC/FID (Internal Method-002)
Instrument: Agilent 6890

Deviations from SOP:
None

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	384	0.0384
Camphene	1566	0.157
δ-3-Carene	-	-
β-Caryophyllene	24943	2.49
Caryophyllene oxide	-	-
p-Cymene	1242	0.124
Eucalyptol	-	-
Geraniol	-	-
Guaiol	729	0.0729
α-Humulene	13079	1.31
Isopulegol	-	-
d-Limonene	4283	0.428
Linalool	-	-
β-Myrcene	4964	0.496
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	1560	0.156
α-Pinene	2246	0.225
β-Pinene	2687	0.269
α-Terpinene	-	-
γ-Terpinene	-	-
Terpinolene	-	-
TOTAL	57683	5.77

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

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.

"-" Not detected above RL.

Reporting Limit (µg/g): 20.2

Kyle W. Felling, Ph.D.
Laboratory Director

Arkansas Location
232 S Broadview St
Greenbrier, AR 72058
(501) 679-2616

Oklahoma City Location
3680 E I-240 Service Rd
Oklahoma City, OK 73135
(405) 595-0344

Tulsa Location
14720 E Admiral Pl, Ste H
Tulsa, OK 74108
(918) 340-7139

SUMMARY OF ANALYSIS (SAMPLE ID: SA27232)

Testing Location:
OKC
3680 E. I-240 Service Rd.
Oklahoma City, OK 73135
License: LAAA-4Y4X-Z72Z

Customer ID: 710
Sunday Extracts
1006 North Oak St
Guthrie, OK 73044
License: PAAA-NYIN-5SXK

Order ID: OR8487
Lot Number:
Not Entered
Batch Number:
RDS507MDMC900

Sample Type: Primary
Matrix: Concentrate
Mass: 2g
Date Collected: 05/18/2020
Date Received: 05/18/2020

Cultivar (Strain) or Sample Description: Mandarin Dream/ Mandarin Cookie

Date Completed: 05/22/2020

RESIDUAL SOLVENT PROFILE

Analysis Date/Time: 05/22/2020 1400
Analyst: CC

Method: USP <467>
Instrument: Agilent 6890

Deviations from SOP:
None

Solvent	Result (µg/g)	Action Level (µg/g)
Acetone (67-64-1)	-	1000
Benzene (71-43-2)	-	2
n-Butane (106-97-2)	-	1000
2,2-Dimethylbutane (75-83-2)	-	60
2,3-Dimethylbutane (79-29-8)	-	60
Ethyl benzene (100-41-4)	-	430
n-Heptane (142-82-5)	-	1000
n-Hexane (110-54-3)	-	60
Isobutane (75-28-5)	-	1000
Isopropanol (67-63-0)	-	1000
2-Methylbutane (78-78-4)	-	1000
2-Methylpentane (107-83-5)	-	60
3-Methylpentane (96-10-0)	-	60
n-Pentane (109-66-0)	-	1000
n-Propane (74-98-6)	-	1000
Toluene (108-88-3)	-	180
o-Xylene (95-47-6)	-	430
m,p-Xylene (108-38-3 or 106-42-3)	-	430
Xylenes* (1330-20-7)	-	430

Color Key

RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

Reporting Limit (µg/g)
1/2 of AL

"-" not detected above reporting limit

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

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

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

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

www.FASTLaboratories.com

F.A.S.T. LABORATORIES/RESEARCH

Arkansas Location
232 S Broadview St
Greenbrier, AR 72058
(501) 679-2616

Oklahoma City Location
3680 E I-240 Service Rd
Oklahoma City, OK 73135
(405) 595-0344

Tulsa Location
14720 E Admiral Pl, Ste H
Tulsa, OK 74108
(918) 340-7139

SUMMARY OF ANALYSIS (SAMPLE ID: SA27232)

Testing Location:
OKC
3680 E. I-240 Service Rd.
Oklahoma City, OK 73135
License: LAAA-4Y4X-Z72Z

Customer ID: 710
Sunday Extracts
1006 North Oak St
Guthrie, OK 73044
License: PAAA-NYIN-5SXK

Order ID: OR8487
Lot Number:
Not Entered
Batch Number:
RDS507MDMC900

Sample Type: Primary
Matrix: Concentrate
Mass: 2g
Date Collected: 05/18/2020
Date Received: 05/18/2020

Cultivar (Strain) or Sample Description: Mandarin Dream/ Mandarin Cookie

Date Completed: 05/22/2020

PESTICIDES PROFILE

Analysis Date/Time: 05/22/2020 1400
Analyst: DJ

Method: LC/MS/MS
Instrument: Waters Acquity/TQD

Deviations from SOP:
None

Pesticide	Result (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.5
Azoxystrobin (131860-33-8)	-	0.5
Bifenazate* (149877-41-8)	-	0.5
Etoxazole (153233-91-1)	-	0.5
Imazalil (35554-44-0)	-	0.5
Imidacloprid (138261-41-3)	-	0.5
Malathion (121-75-5)	-	0.5
Myclobutanil (88671-89-0)	-	0.5
Permethrins* (52645-53-1)	-	0.5
Spinosad A (168316-95-8)	-	0.5
Spinosad D (168316-95-8)	-	0.5
Spiromesifen (283594-90-1)	-	0.5
Spirotetramat (203313-25-1)	-	0.5
Tebuconazole (80443-41-0)	-	0.5

Color Key

RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

Reporting Limit (µg/g)
1/2 of AL

"-" not detected above reporting limit

"*" analyzed by GC/MS (all others analyzed by LC/MS/MS)

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

Abbreviations: LC - Liquid Chromatography, GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services

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		

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

F.A.S.T. LABORATORIES/RESEARCH

Arkansas Location
232 S Broadview St
Greenbrier, AR 72058
(501) 679-2616

Oklahoma City Location
3680 E I-240 Service Rd
Oklahoma City, OK 73135
(405) 595-0344

Tulsa Location
14720 E Admiral Pl, Ste H
Tulsa, OK 74108
(918) 340-7139

SUMMARY OF ANALYSIS (SAMPLE ID: SA27232)

Testing Location:	**Customer ID:** 710	**Order ID:** OR8487	**Sample Type:** Primary
OKC	Sunday Extracts	**Lot Number:**	**Matrix:** Concentrate
3680 E. I-240 Service Rd.	1006 North Oak St	Not Entered	**Mass:** 2g
Oklahoma City, OK 73135	Guthrie, OK 73044	**Batch Number:**	**Date Collected:** 05/18/2020
License: LAAA-4Y4X-Z72Z	License: PAAA-NYIN-5SXK	RDS507MDMC900	**Date Received:** 05/18/2020

Cultivar (Strain) or Sample Description: Mandarin Dream/ Mandarin Cookie — **Date Completed:** 05/22/2020

MYCOTOXIN PROFILE

Analysis Date/Time: 05/22/2020 1400 — **Method:** LC/MS/MS — **Deviations from SOP:**
Analyst: DJ — **Instrument:** Waters Acquity/TQD — 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: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level

Color Key

RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

Reporting Limit (CFU/g)
1

"-" not detected above reporting limit

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

F.A.S.T. LABORATORIES/RESEARCH

Arkansas Location
232 S Broadview St
Greenbrier, AR 72058
(501) 679-2616

Oklahoma City Location
3680 E I-240 Service Rd
Oklahoma City, OK 73135
(405) 595-0344

Tulsa Location
14720 E Admiral Pl, Ste H
Tulsa, OK 74108
(918) 340-7139

SUMMARY OF ANALYSIS (SAMPLE ID: SA27232)

Testing Location:
OKC
3680 E. I-240 Service Rd.
Oklahoma City, OK 73135
License: LAAA-4Y4X-Z72Z

Customer ID: 710
Sunday Extracts
1006 North Oak St
Guthrie, OK 73044
License: PAAA-NYIN-5SXK

Order ID: OR8487
Lot Number:
Not Entered
Batch Number:
RDS507MDMC900

Sample Type: Primary
Matrix: Concentrate
Mass: 2g
Date Collected: 05/18/2020
Date Received: 05/18/2020

Cultivar (Strain) or Sample Description: Mandarin Dream/ Mandarin Cookie

Date Completed: 05/22/2020

HEAVY METAL PROFILE

Analysis Date/Time: 05/22/2020 1400
Analyst: CC

Method: ICP/MS
Instrument: PerkinElmer Elan 9000

Deviations from SOP:
None

Heavy Metal	Result (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	400
Cadmium (Cd)	-	440
Lead (Pb)	-	1000
Mercury (Hg)	-	200

Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, MS - Mass Spectroscopy, RL - Reporting Limit, AL - Action Level

Color Key

RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

Reporting Limit (µg/kg)
50

"-" not detected above reporting limit

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

F.A.S.T. LABORATORIES/RESEARCH

Arkansas Location
232 S Broadview St
Greenbrier, AR 72058
(501) 679-2616

Oklahoma City Location
3680 E I-240 Service Rd
Oklahoma City, OK 73135
(405) 595-0344

Tulsa Location
14720 E Admiral Pl, Ste H
Tulsa, OK 74108
(918) 340-7139

SUMMARY OF ANALYSIS (SAMPLE ID: SA27232)

Testing Location:
OKC
3680 E. I-240 Service Rd.
Oklahoma City, OK 73135
License: LAAA-4Y4X-Z72Z

Customer ID: 710
Sunday Extracts
1006 North Oak St
Guthrie, OK 73044
License: PAAA-NYIN-5SXK

Order ID: OR8487
Lot Number:
Not Entered
Batch Number:
RDS507MDMC900

Sample Type: Primary
Matrix: Concentrate
Mass: 2g
Date Collected: 05/18/2020
Date Received: 05/18/2020

Cultivar (Strain) or Sample Description: Mandarin Dream/ Mandarin Cookie

Date Completed: 05/22/2020

MICROBIOLOGICAL PROFILE

Analysis Date/Time: 05/22/2020 1400
Analyst: DJ

Method: Hardy Diagnostics CompactDry
Instrument: Thermo Incubator

Deviations from SOP:
None

Bacteria/Microbe	Result (CFU/g)	Action Level (CFU/g)
Escherichia Coli (E. Coli)	Absent	1
Mold/Yeast	Absent	10000
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 < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

Reporting Limit (CFU/g)
1

"-" not detected above reporting limit

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

REPORT OF LABORATORY ANALYSIS

www.FASTLaboratories.com