

SUMMARY OF ANALYSIS (SAMPLE ID: SA41075)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 -	Customer ID: 37 Can-Tek Labs 8107 S I-35 Service Rd Oklahoma City, OK 73149 License: Not Entered or N/A	Order ID: OR11595 Lot Number: 051225-01 Batch Number: CTK-051225-01	Sample Type: Primary Matrix: Edible Mass: 5cnt Date Collected: 05/14/2025 Date Received: 05/14/2025
Cultivar (Strain) or Sample Description: Blood Orange			Date Completed: 05/23/2025

*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 Oklahoma-Oral/Rectal/Vaginal MMJ testing guidelines.
*Where provided, statements of conformity (e.g. Pass/Fail) are made in accordance with ILAC G8, Binary Statement for Simple Acceptance Rule (w=0, AL=TL).
PASS: when the result is within the acceptance interval. FAIL: when the result is outside the acceptance interval

Moisture Content (%) Not Tested	Water Activity (aw) Not Tested	PASS/FAIL PASS
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Moisture content/water activity action levels are referenced from the State of Oklahoma-Oral/Rectal/Vaginal 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
Δ9-THC	0.254	2.54
THCV	0.0150	0.150
CBD	0.0119	0.119
TOTAL CBD	0.0119	0.119
TOTAL THC	0.254	2.54
TOTAL CANNABINOIDS	0.281	2.81

Terpenes (Top 5)	(%)	ppm
d-Limonene	0.185	1850
α-Humulene	0.0227	227
β-Myrcene	0.00359	35.9
β-Ocimene	0.00148	14.8
Linalool	0.00124	12.4
TOTAL TERPENES	0.216	2160

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



Scan the QR code to verify results.

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Kyle W. Felling
Kyle W. Felling, Ph.D.
Laboratory Director



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA41075)

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Cultivar (Strain) or Sample Description: Blood Orange **Date Completed:** 05/23/2025

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

Analysis Date/Time: 05/15/2025 1616 **Method:** HPLC/DAD **Moisture Content (%):** -
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** -

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>LOD (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	ND	ND	0.00220	0.00514	-	0.000	0.000
CBCA	ND	ND	0.00684	0.0160	-	0.000	0.000
CBD	0.0119	0.119	0.0155	0.0363	-	0.483	0.483
CBDa	ND	ND	0.00572	0.0134	-	0.000	0.000
CBDV	ND	ND	0.00249	0.00582	-	0.000	0.000
CBDVA	ND	ND	0.00665	0.0155	-	0.000	0.000
CBG	ND	ND	0.0101	0.0236	-	0.000	0.000
CBGA	DET	DET	0.0143	0.0169	-	0.000	0.000
CBL	ND	ND	0.0117	0.0272	-	0.000	0.000
CBN	ND	ND	0.00535	0.0125	-	0.000	0.000
CBNA	ND	ND	0.00578	0.0135	-	0.000	0.000
Δ9-THC	0.254	2.54	0.00642	0.0150	-	10.3	10.3
Δ8-THC	ND	ND	0.0100	0.0234	-	0.000	0.000
THCA	ND	ND	0.00348	0.00814	-	0.000	0.000
THCV	0.0150	0.150	0.00835	0.0195	-	0.609	0.609
THCVA	ND	ND	0.00267	0.00620	-	0.000	0.000
TOTAL	0.281	2.81				11.4	11.4
TOTAL CBC	0.000	0.000				0.000	0.000
TOTAL CBD	0.0119	0.119				0.483	0.483
TOTAL CBDV	0.000	0.000				0.000	0.000
TOTAL CBG	0.000	0.000				0.000	0.000
TOTAL CBN	0.000	0.000				0.000	0.000
TOTAL THC	0.254	2.54				10.3	10.3
TOTAL THCV	0.0150	0.150				0.609	0.609



SERVING MASS (g): 4.06
SERVINGS/UNIT: 1

"-" Not reported for this sample.

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.
Dry percent = Wet percent / (1-(Moisture Content/100))

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, ND - Not Detected (less than LOD)

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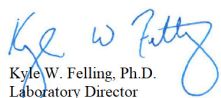
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Cultivar (Strain) or Sample Description: Blood Orange **Date Completed:** 05/23/2025

TERPENOID PROFILE

Analysis Date/Time: 05/22/2025 1730
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

<u>Terpene</u>	<u>Result (ppm)</u>	<u>Result (%)</u>
α-Bisabolol	ND	-
Camphene	ND	-
δ-3-Carene	ND	-
β-Caryophyllene	<LOQ	-
Caryophyllene oxide	ND	-
p-Cymene	9.14	0.000914
Eucalyptol	<LOQ	-
Geraniol	ND	-
Guaiol	ND	-
α-Humulene	227	0.0227
Isopulegol	ND	-
d-Limonene	1850	0.185
Linalool	12.4	0.00124
β-Myrcene	35.9	0.00359
cis-Nerolidol	ND	-
trans-Nerolidol	8.36	0.000836
α-Ocimene	ND	-
β-Ocimene	14.8	0.00148
α-Pinene	9.63	0.000963
β-Pinene	<LOQ	-
α-Terpinene	ND	-
γ-Terpinene	ND	-
Terpinolene	ND	-
TOTAL	2160	0.216



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 (ppm): 4.83

"-" Not detected above LOD.

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Cultivar (Strain) or Sample Description: Blood Orange **Date Completed:** 05/23/2025

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

Analysis Date/Time: 05/21/2025 1655	Method: HS/GC/MS	Deviations from SOP:
Analyst: KF	Instrument: Agilent 7890/5975	None

Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)
Acetone (67-64-1)	-	36.6	73.3	1000	n-Heptane (142-82-5)	-	36.6	73.3	1000
Acetonitrile (75-5-8)	-	36.6	73.3	-	n-Hexane (110-54-3)	-	12.8	25.6	60
Benzene (71-43-2)	-	0.366	0.733	2	Isobutane (75-28-5)	-	36.6	73.3	1000
n-Butane (106-97-2)	-	36.6	73.3	1000	Isopropanol (67-63-0)	-	36.6	73.3	1000
1-Butanol (71-36-3)	-	36.6	73.3	-	Isopropyl acetate (108-21-4)	-	36.6	73.3	-
2-Butanol (78-92-2)	-	36.6	73.3	-	Isopropyl benzene (98-82-8)	-	3.66	7.33	-
2-Butanone (78-93-3)	-	36.6	73.3	-	Methanol (67-56-1)	-	36.6	73.3	600
Cyclohexane (110-82-7)	-	36.6	73.3	-	2-Methylbutane (78-78-4)	-	36.6	73.3	-
1,2-Dimethoxyethane (110-71-4)	-	3.66	7.33	-	Methylene chloride (75-9-2)	-	36.6	73.3	-
N,N-Dimethylacetamide (127-19-5)	-	36.6	73.3	-	2-Methylpentane (107-83-5)	-	12.8	25.6	-
2,2-Dimethylbutane (75-83-2)	-	12.8	25.6	-	3-Methylpentane (96-10-0)	-	12.8	25.6	-
2,3-Dimethylbutane (79-29-8)	-	12.8	25.6	-	n-Pentane (109-66-0)	-	36.6	73.3	1000
N,N-Dimethylformamide (68-12-2)	-	36.6	73.3	-	1-Pentanol (71-41-0)	-	36.6	73.3	-
Dimethylsulfoxide (67-68-5)	-	36.6	73.3	-	n-Propane (74-98-6)	-	36.6	73.3	1000
1,4-Dioxane (123-91-1)	-	36.6	73.3	-	1-Propanol (71-23-8)	-	36.6	73.3	-
Ethanol (64-17-5)	-	36.6	73.3	-	Pyridine (110-86-1)	-	12.8	25.6	-
2-Ethoxyethanol (110-80-5)	-	12.8	25.6	-	Tetrahydrofuran (109-99-9)	-	36.6	73.3	-
Ethyl ether (60-29-7)	-	36.6	73.3	-	Tetramethylene sulfone (126-33-0)	-	12.8	25.6	-
Ethyl acetate (141-78-6)	-	36.6	73.3	1000	Toluene (108-88-3)	-	36.6	73.3	180
Ethyl benzene (100-41-4)	-	36.6	73.3	-	o-Xylene (95-47-6)	-	36.6	73.3	430
Ethylene glycol (107-21-1)	-	36.6	73.3	-	m,p-Xylene (108-38-3 or 106-42-3)	-	36.6	73.3	430
Ethylene oxide (75-21-8)	-	3.66	7.33	-	Xylenes* (1330-20-7)	-	43.3	86.7	430



Color Key

RESULT < AL (Green background)
RESULT > AL (Red background)

"-" not detected above 1/2 Action Level

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

Action levels are referenced from the State of Oklahoma-Oral/Rectal/Vaginal 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
Dimethylsulfoxide	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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Cultivar (Strain) or Sample Description: Blood Orange **Date Completed:** 05/23/2025

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 05/22/2025 1233
Analyst: KF

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

Deviations from SOP:
None

Pesticide	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Pesticide	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)
Abamectin (71751-41-2)	-	0.00967	0.0773	0.5	Kresoxim-methyl (143390-89-0)	-	0.00967	0.0773	-
Acephate (30560-19-1)	-	0.00967	0.0773	-	Malathion (121-75-5)	-	0.00967	0.0773	0.2
Acequinocyl (57960-19-7)	-	0.00967	0.0773	-	Metalaxyl (57837-19-1)	-	0.00967	0.0773	-
Acetamiprid (135410-20-7)	-	0.00967	0.0773	-	Methiocarb (2032-65-7)	-	0.00967	0.0773	-
Aldicarb (116-06-3)	-	0.00967	0.0773	-	Methomyl (16752-77-5)	-	0.00967	0.0773	-
Azoxystrobin (131860-33-8)	-	0.00967	0.0773	0.2	Methyl parathion (298-0-0)	-	0.00967	0.0773	-
Bifenazate (149877-41-8)	-	0.00967	0.0773	0.2	MGK 264 (113-48-4)	-	0.00967	0.0773	-
Bifenthrin (82657-04-3)	-	0.00967	0.0773	-	Myclobutanil (88671-89-0)	-	0.00967	0.0773	0.2
Boscalid (188425-85-6)	-	0.00967	0.0773	-	Naled (300-76-5)	-	0.00967	0.0773	-
Carbaryl (63-25-2)	-	0.00967	0.0773	-	Oxamyl (23135-22-0)	-	0.00967	0.0773	-
Carbofuran (1563-66-2)	-	0.00967	0.0773	-	Pacllobutrazol (76738-62-0)	-	0.00967	0.0773	-
Chlorantraniliprole (800008-45-7)	-	0.00967	0.0773	-	Permethrins (52645-53-1)	-	0.00967	0.0773	0.2
Chlorfenapyr (122453-73-0)	-	0.00967	0.0773	-	Phosmet (732-11-6)	-	0.00967	0.0773	-
Chlorpyrifos (2921-88-2)	-	0.00967	0.0773	-	Piperonyl butoxide (51-03-6)	-	0.00967	0.0773	-
Clofentezine (74115-24-5)	-	0.00967	0.0773	-	Prallethrin (2331-36-9)	-	0.00967	0.0773	-
Cyfluthrin (68359-37-5)	-	0.00967	0.0773	-	Propiconazole (60207-90-1)	-	0.00967	0.0773	-
Cypermethrin (52315-07-8)	-	0.00967	0.0773	-	Propoxur (114-26-1)	-	0.00967	0.0773	-
Daminozide (1596-84-5)	-	0.00967	0.0773	-	Pyrethrins (8003-34-7)	-	0.00967	0.0773	-
DDVP (62-73-7)	-	0.00967	0.0773	-	Pyridaben (96489-71-3)	-	0.00967	0.0773	-
Diazinon (333-41-5)	-	0.00967	0.0773	-	Spinosad (168316-95-8)	-	0.00967	0.0773	0.2
Dimethoate (60-51-5)	-	0.00967	0.0773	-	Spiromesifen (283594-90-1)	-	0.00967	0.0773	0.2
Ethoprophos (13194-48-4)	-	0.00967	0.0773	-	Spirotetramat (203313-25-1)	-	0.00967	0.0773	0.2
Etofenprox (80844-07-1)	-	0.00967	0.0773	-	Spiroxamine (118134-30-8)	-	0.00967	0.0773	-
Ettoxazole (153233-91-1)	-	0.00967	0.0773	0.2	Tebuconazole (80443-41-0)	-	0.00967	0.0773	0.4
Fenoxycarb (72490-01-8)	-	0.00967	0.0773	-	Thiacloprid (111988-49-9)	-	0.00967	0.0773	-
(E)-Fenpyroximate (134098-61-6)	-	0.00967	0.0773	-	Thiamethoxam (153719-23-4)	-	0.00967	0.0773	-
Fipronil (120068-37-3)	-	0.00967	0.0773	-	Trifloxystrobin (141517-21-7)	-	0.00967	0.0773	-
Flonicamid (158062-67-0)	-	0.00967	0.0773	-					
Fludioxinil (131341-86-1)	-	0.00967	0.0773	-					
Hexythiazox (78587-05-0)	-	0.00967	0.0773	-					
Imazalil (35554-44-0)	-	0.00967	0.0773	0.2					
Imidacloprid (138261-41-3)	-	0.00967	0.0773	0.4					



Color Key

RESULT < AL (Green background)
RESULT > AL (Red background)

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

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MYCOTOXIN PROFILE (SOP: SOP-MYCO-001)

Analysis Date/Time: 05/22/2025 1233	Method: LC/MS/MS	Deviations from SOP:
Analyst: KF	Instrument: Shimadzu LC-8050	None

<u>Mycotoxin</u>	<u>Result</u> (µg/kg)	<u>Action Level</u> (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



Reporting Limit (µg/kg)
Action Level

"-" not detected above reporting limit

Action levels are referenced from the State of Oklahoma-Oral/Rectal/Vaginal MMJ testing guidelines.

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

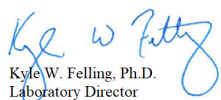
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Kyle W. Felling, Ph.D.
Laboratory Director



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA41075)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 -	Customer ID: 37 Can-Tek Labs 8107 S I-35 Service Rd Oklahoma City, OK 73149 License: Not Entered or N/A	Order ID: OR11595 Lot Number: 051225-01 Batch Number: CTK-051225-01	Sample Type: Primary Matrix: Edible Mass: 5cnt Date Collected: 05/14/2025 Date Received: 05/14/2025
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Cultivar (Strain) or Sample Description: Blood Orange **Date Completed:** 05/23/2025

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

Analysis Date/Time: 05/22/2025 1806 **Method:** ICP/MS **Deviations from SOP:**
Instrument: Agilent 7700x None

Analyst: KF

<u>Heavy Metal</u>	<u>Result (ppb)</u>	<u>LOD (ppb)</u>	<u>LOQ (ppb)</u>	<u>Action Level (ppb)</u>
Arsenic (As)	ND	55.2	87.3	1500
Cadmium (Cd)	ND	55.2	87.3	500
Lead (Pb)	ND	55.2	87.3	1000
Mercury (Hg)	ND	55.2	87.3	1500



Abbreviations: ICP - Inductively-Coupled Plasma, MS - Mass Spectrometry,
RL - Reporting Limit, AL - Action Level, LOD - Limit of Detection, LOQ - Limit of Quantitation

Color Key



"DET" detected less than LOQ

"ND" not detected above LOD

Reporting limit is 1/2 the action level of each analyte.

Action levels for heavy metals are referenced from the State of Oklahoma-Oral/Rectal/Vaginal MMJ testing guidelines.

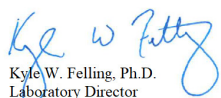
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Cultivar (Strain) or Sample Description: Blood Orange			Date Completed: 05/23/2025

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 05/23/2025 0614 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: PW **Instrument:** Thermo Incubator None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
Aerobic Plate Count	60	-
Coliforms, Total	Absent	-
Escherichia Coli (E. Coli)	Absent	1
Mold/Yeast	Absent	10
Pseudomonas aeruginosa	NT	-
Salmonella spp.	Absent	1
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



Reporting Limit (CFU/g)
1

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

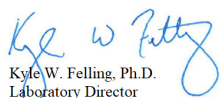
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