F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

Analyzed on behalf of: RVR

SUMMARY OF ANALYSIS (SAMPLE ID: SA31889)

Testing Location:	**Customer ID:** 2168	**Order ID:** OR9915	**Sample Type:** Primary
Arkansas	River Valley Relief MIPS	**Lot Number:**	**Matrix:** Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13241641866	**Mass:** 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	**Batch Number:**	**Date Collected:** 07/07/2022
License: ADH 113	License: 00065C	Not Entered	**Date Received:** 07/08/2022

Cultivar (Strain) or Sample Description: Orange 43 Live Sugar — **Date Completed:** 07/10/2022

*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	N/A

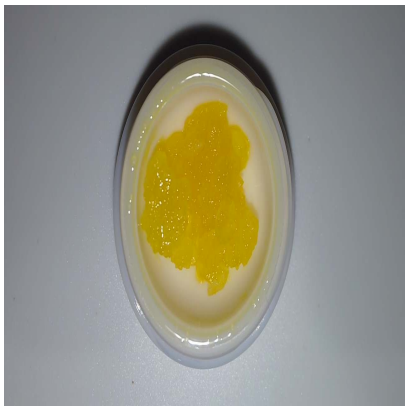
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	80.4	804
CBGA	2.07	20.7
THCVA	0.687	6.87
TOTAL CBD	-	-
TOTAL THC	70.5	705
TOTAL CANNABINOIDS	83.2	832

Terpenes (Top 5)	(%)	µg/g
Terpinolene	1.14	11400
β-Myrcene	0.834	8340
β-Ocimene	0.395	3950
d-Limonene	0.284	2840
β-Pinene	0.128	1280
TOTAL TERPENES	3.14	31400

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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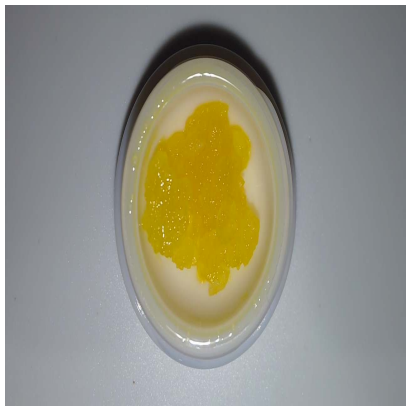
Cultivar (Strain) or Sample Description: Orange 43 Live Sugar — **Date Completed:** 07/10/2022

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

Analysis Date/Time: 7/8/2022 1826
Analyst: PW
Method: HPLC/DAD
Instrument: Agilent 1100
Moisture Content (%): -
Water Activity (aw): -

Cannabinoid	Result (%)	UM (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/mL)	Per Serving (mg)	Per Unit (mg)
CBC	-	-	-	4.79	-	-	-
CBCA	DET	-	DET	4.79	-	-	-
CBD	-	-	-	4.79	-	-	-
CBDA	DET	-	DET	4.79	-	-	-
CBDV	DET	-	DET	4.79	-	-	-
CBDVA	-	-	-	4.79	-	-	-
CBG	-	-	-	4.79	-	-	-
CBGA	2.07	0.228	20.7	4.79	-	20.7	20.7
CBL	DET	-	DET	4.79	-	-	-
CBN	DET	-	DET	4.79	-	-	-
CBNA	-	-	-	4.79	-	-	-
Δ9-THC	DET	-	DET	4.79	-	-	-
Δ8-THC	DET	-	DET	4.79	-	-	-
THCA	80.4	8.04	804	4.79	-	804	804
THCV	DET	-	DET	4.79	-	-	-
THCVA	0.687	0.0343	6.87	4.79	-	6.87	6.87
TOTAL	83.2	8.31	832		-	832	832
TOTAL CBC	-	-	-		-	-	-
TOTAL CBD	-	-	-		-	-	-
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	1.82	0.200	18.2		-	18.2	18.2
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	70.5	7.05	705		-	705	705
TOTAL THCV	0.596	0.0298	5.96		-	5.96	5.96



SERVING MASS (g): 1.00
SERVINGS/UNIT: 1

"-" 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.

* 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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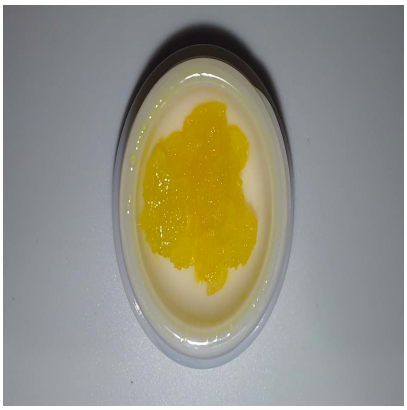
Cultivar (Strain) or Sample Description: Orange 43 Live Sugar — **Date Completed:** 07/10/2022

TERPENOID PROFILE

Analysis Date/Time:07/09/2022 1657 — **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	1240	0.124
Caryophyllene oxide	-	-
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	131	0.0131
α-Humulene	88.0	0.00880
Isopulegol	-	-
d-Limonene	2840	0.284
Linalool	247	0.0247
β-Myrcene	8340	0.834
cis-Nerolidol	460	0.0460
trans-Nerolidol	272	0.0272
α-Ocimene	-	-
β-Ocimene	3950	0.395
α-Pinene	1120	0.112
β-Pinene	1280	0.128
α-Terpinene	60.7	0.00607
γ-Terpinene	-	-
Terpinolene	11400	1.14
TOTAL	31400	3.14



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 19.6

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Cultivar (Strain) or Sample Description: Orange 43 Live Sugar — **Date Completed:** 07/10/2022

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

Analysis Date/Time: 7/8/2022 2245 — **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)	-	36.4	72.9	5000
Acetonitrile (75-5-8)	-	36.4	72.9	410
Benzene (71-43-2)	-	0.364	0.729	2
n-Butane (106-97-2)	-	36.4	72.9	5000
1-Butanol (71-36-3)	-	36.4	72.9	5000
2-Butanol (78-92-2)	-	36.4	72.9	5000
2-Butanone (78-93-3)	-	36.4	72.9	5000
Cyclohexane (110-82-7)	-	36.4	72.9	3880
1,2-Dimethoxyethane (110-71-4)	-	3.64	7.29	100
N,N-Dimethylacetamide (127-19-5)	-	36.4	72.9	1090
2,2-Dimethylbutane (75-83-2)	-	12.8	25.5	290
2,3-Dimethylbutane (79-29-8)	-	12.8	25.5	290
N,N-Dimethylformamide (68-12-2)	-	36.4	72.9	880
Dimethylsulfoxide (67-68-5)	-	36.4	72.9	5000
1,4-Dioxane (123-91-1)	-	36.4	72.9	380
Ethanol (64-17-5)	-	36.4	72.9	5000
2-Ethoxyethanol (110-80-5)	-	12.8	25.5	160
Ethyl ether (60-29-7)	-	36.4	72.9	5000
Ethyl acetate (141-78-6)	-	36.4	72.9	5000
Ethyl benzene (100-41-4)	-	36.4	72.9	2170
Ethylene glycol (107-21-1)	-	36.4	72.9	620
Ethylene oxide (75-21-8)	-	3.64	7.29	50

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
n-Heptane (142-82-5)	-	36.4	72.9	5000
n-Hexane (110-54-3)	-	12.8	25.5	290
Isobutane (75-28-5)	-	36.4	72.9	5000
Isopropanol (67-63-0)	-	36.4	72.9	5000
Isopropyl acetate (108-21-4)	-	36.4	72.9	5000
Isopropyl benzene (98-82-8)	-	3.64	7.29	70
Methanol (67-56-1)	-	36.4	72.9	3000
2-Methylbutane (78-78-4)	-	36.4	72.9	5000
Methylene chloride (75-9-2)	-	36.4	72.9	600
2-Methylpentane (107-83-5)	-	12.8	25.5	290
3-Methylpentane (96-10-0)	-	12.8	25.5	290
n-Pentane (109-66-0)	-	36.4	72.9	5000
1-Pentanol (71-41-0)	-	36.4	72.9	5000
n-Propane (74-98-6)	-	36.4	72.9	5000
1-Propanol (71-23-8)	-	36.4	72.9	5000
Pyridine (110-86-1)	-	12.8	25.5	200
Tetrahydrofuran (109-99-9)	-	36.4	72.9	720
Tetramethylene sulfone (126-33-0)	-	12.8	25.5	160
Toluene (108-88-3)	-	36.4	72.9	890
o-Xylene (95-47-6)	-	36.4	72.9	2170
m,p-Xylene (108-38-3 or 106-42-3)	-	36.4	72.9	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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Cultivar (Strain) or Sample Description: Orange 43 Live Sugar — **Date Completed:** 07/10/2022

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 7/8/2022 1922 — **Method:** LC/MS/MS — **Deviations from SOP:**

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

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0196	0.157	0.5
Acephate (30560-19-1)	-	0.0196	0.157	0.4
Acequinocyl (57960-19-7)	-	0.0196	0.157	2
Acetamiprid (135410-20-7)	-	0.0196	0.157	0.2
Aldicarb (116-06-3)	-	0.0196	0.157	0.4
Azoxystrobin (131860-33-8)	-	0.0196	0.157	0.2
Bifenazate (149877-41-8)	-	0.0196	0.157	0.2
Bifenthrin (82657-04-3)	-	0.0196	0.157	0.2
Boscalid (188425-85-6)	-	0.0196	0.157	0.4
Carbaryl (63-25-2)	-	0.0196	0.157	0.2
Carbofuran (1563-66-2)	-	0.0196	0.157	0.2
Chlorantraniliprole (800008-45-7)	-	0.0196	0.157	0.2
Chlorfenapyr (122453-73-0)	-	0.0196	0.157	1
Chlorpyrifos (2921-88-2)	-	0.0196	0.157	0.2
Clofentezine (74115-24-5)	-	0.0196	0.157	0.2
Cyfluthrin (68359-37-5)	-	0.0196	0.157	1
Cypermethrin (52315-07-8)	-	0.0196	0.157	1
Daminozide (1596-84-5)	-	0.0196	0.157	1
DDVP (62-73-7)	-	0.0196	0.157	0.1
Diazinon (333-41-5)	-	0.0196	0.157	0.2
Dimethoate (60-51-5)	-	0.0196	0.157	0.2
Ethoprophos (13194-48-4)	-	0.0196	0.157	0.2
Etofenprox (80844-07-1)	-	0.0196	0.157	0.4
Etoxazole (153233-91-1)	-	0.0196	0.157	0.2
Fenoxycarb (72490-01-8)	-	0.0196	0.157	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0196	0.157	0.4
Fipronil (120068-37-3)	-	0.0196	0.157	0.4
Flonicamid (158062-67-0)	-	0.0196	0.157	1
Fludioxinil (131341-86-1)	-	0.0196	0.157	0.4
Hexythiazox (78587-05-0)	-	0.0196	0.157	1
Imazalil (35554-44-0)	-	0.0196	0.157	0.2
Imidacloprid (138261-41-3)	-	0.0196	0.157	0.4
Kresoxim-methyl (143390-89-0)	-	0.0196	0.157	0.4
Malathion (121-75-5)	-	0.0196	0.157	0.2
Metalaxyl (57837-19-1)	-	0.0196	0.157	0.2
Methiocarb (2032-65-7)	-	0.0196	0.157	0.2
Methomyl (16752-77-5)	-	0.0196	0.157	0.4
Methyl parathion (298-0-0)	-	0.0196	0.157	0.2
MGK 264 (113-48-4)	-	0.0196	0.157	0.2
Myclobutanil (88671-89-0)	-	0.0196	0.157	0.2
Naled (300-76-5)	-	0.0196	0.157	0.5
Oxamyl (23135-22-0)	-	0.0196	0.157	1
Paclobutrazol (76738-62-0)	-	0.0196	0.157	0.4
Permethrins (52645-53-1)	-	0.0196	0.157	0.2
Phosmet (732-11-6)	-	0.0196	0.157	0.2
Piperonyl butoxide (51-03-6)	-	0.0196	0.157	2
Prallethrins (2331-36-9)	-	0.0196	0.157	0.2
Propiconazole (60207-90-1))	-	0.0196	0.157	0.4
Propoxur (114-26-1)	-	0.0196	0.157	0.2
Pyrethrins (8003-34-7)	-	0.0196	0.157	1
Pyridaben (96489-71-3)	-	0.0196	0.157	0.2
Spinosad (168316-95-8)	-	0.0196	0.157	0.2
Spiromesifen (283594-90-1)	-	0.0196	0.157	0.2
Spirotetramat (203313-25-1)	-	0.0196	0.157	0.2
Spiroxamine (118134-30-8)	-	0.0196	0.157	0.4
Tebuconazole (80443-41-0)	-	0.0196	0.157	0.4
Thiacloprid (111988-49-9)	-	0.0196	0.157	0.2
Thiamethoxam (153719-23-4)	-	0.0196	0.157	0.2
Trifloxystrobin (141517-21-7)	-	0.0196	0.157	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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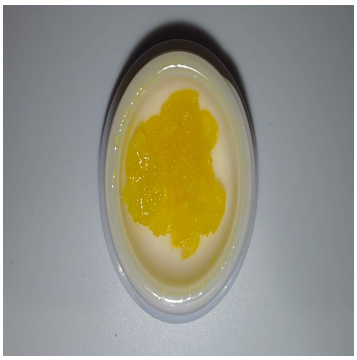
HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 07/09/2022 0956 (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)	-	45.7	86.9	200
Cadmium (Cd)	-	45.7	86.9	200
Lead (Pb)	-	45.7	86.9	500
Mercury (Hg)	-	45.7	86.9	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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F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

Analyzed on behalf of: RVR

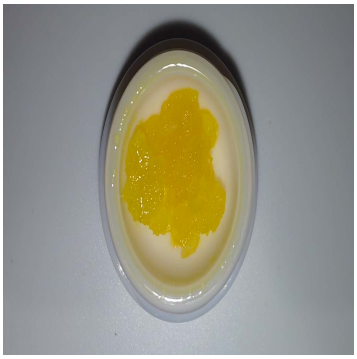
CERTIFICATE OF ANALYSIS (SAMPLE ID: SA31889)

Testing Location:	**Customer ID:** 2168	**Sample ID:** SA31889	**Sample Type:** Primary
Arkansas	River Valley Relief MIPS	**Lot Number:**	**Matrix:** Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13241641866	**Mass:** 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	**Batch Number:**	**Date Collected:** 07/07/2022
License: ADA 05_H273	License: 00065C	Not Entered	**Date Received:** 07/08/2022
Cultivar (Strain) or Sample Description: Orange 43 Live Sugar			**Date Completed:** 07/10/2022

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 7/9/2022 0933
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	NT	-
Salmonella spp.	NT	-
Staphylococcus aureus	NT	-



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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