F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

Analyzed on behalf of:

RVR RIVER VALLEY RELIEF

SUMMARY OF ANALYSIS (SAMPLE ID: SA35453)

Testing Location:	**Customer ID:** 2168	**Order ID:** OR10497	**Sample Type:** Primary
Arkansas	River Valley Relief MIPS	**Lot Number:**	**Matrix:** Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13244975869	**Mass:** 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 06/19/2023
License: ADH 113	License: 00065C	E20230612RFLHR02	**Date Received:** 06/20/2023

Cultivar (Strain) or Sample Description: Race Fuel Hybrid HTFSE Resin .5g Cart — **Date Completed:** 06/21/2023

*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

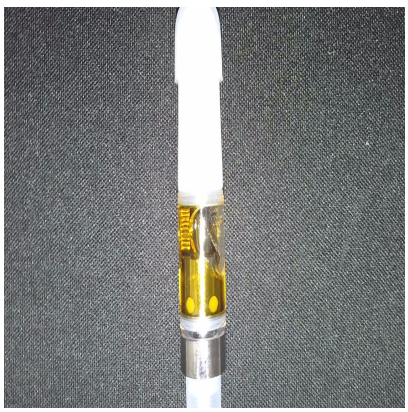
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	39.6	396
Δ9-THC	26.1	261
CBGA	3.78	37.8
TOTAL CBD	0.172	1.72
TOTAL THC	60.8	608
TOTAL CANNABINOIDS	73.5	735

Terpenes (Top 5)	(%)	µg/g
d-Limonene	1.46	14600
β-Myrcene	1.02	10200
α-Pinene	0.142	1420
Terpinolene	0.116	1160
Camphene	0.112	1120
TOTAL TERPENES	3.28	32800

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

REPORT OF LABORATORY ANALYSIS

www.FASTLaboratories.com

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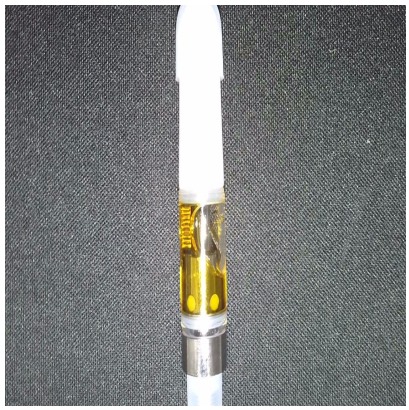
Cultivar (Strain) or Sample Description: Race Fuel Hybrid HTFSE Resin .5g Cart — **Date Completed:** 06/21/2023

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

Analysis Date/Time: 06/21/2023 1043
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	0.107	1.07	0.106	0.248	-	1.07	1.07
CBCA	1.35	13.5	0.329	0.769	-	13.5	13.5
CBD	ND	ND	0.748	1.75	-	-	-
CBDA	0.196	1.96	0.275	0.643	-	1.96	1.96
CBDV	ND	ND	0.120	0.280	-	-	-
CBDVA	ND	ND	0.320	0.747	-	-	-
CBG	1.21	12.1	0.486	1.13	-	12.1	12.1
CBGA	3.78	37.8	0.689	0.812	-	37.8	37.8
CBL	1.00	10.0	0.561	1.31	-	10.0	10.0
CBN	ND	ND	0.258	0.602	-	-	-
CBNA	ND	ND	0.278	0.649	-	-	-
Δ9-THC	26.1	261	0.309	0.720	-	261	261
Δ8-THC	ND	ND	0.482	1.13	-	-	-
THCA	39.6	396	0.168	0.392	-	396	396
THCV	ND	ND	0.402	0.937	-	-	-
THCVA	0.243	2.43	0.128	0.299	-	2.43	2.43
TOTAL	73.5	735			-	735	735
TOTAL CBC	1.29	12.9			-	12.9	12.9
TOTAL CBD	0.172	1.72			-	1.72	1.72
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	4.52	45.2			-	45.2	45.2
TOTAL CBN	-	-			-	-	-
TOTAL THC	60.8	608			-	608	608
TOTAL THCV	0.210	2.10			-	2.10	2.10



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.

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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Laboratory Director

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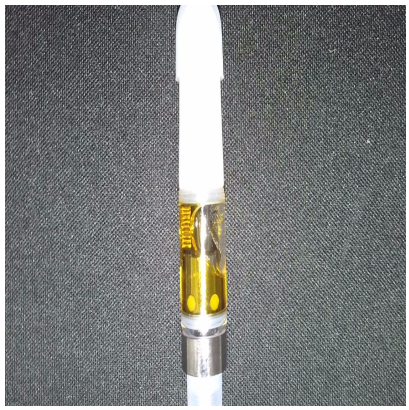
Cultivar (Strain) or Sample Description: Race Fuel Hybrid HTFSE Resin .5g Cart — **Date Completed:** 06/21/2023

TERPENOID PROFILE

Analysis Date/Time:06/21/2023 0234 — **Method:** GC/MS — **Deviations from SOP:**

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

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	43.3	0.00433
Camphene	1120	0.112
δ-3-Carene	16.3	0.00163
β-Caryophyllene	967	0.0967
Caryophyllene oxide	-	-
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	-	-
α-Humulene	627	0.0627
Isopulegol	-	-
d-Limonene	14600	1.46
Linalool	407	0.0407
β-Myrcene	10200	1.02
cis-Nerolidol	-	-
trans-Nerolidol	37.6	0.00376
α-Ocimene	1120	0.112
β-Ocimene	655	0.0655
α-Pinene	1420	0.142
β-Pinene	41.8	0.00418
α-Terpinene	251	0.0251
γ-Terpinene	117	0.0117
Terpinolene	1160	0.116
TOTAL	32800	3.28



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 355

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

Analysis Date/Time: 06/20/2023 1854 — **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)	-	151	302	5000
Acetonitrile (75-5-8)	-	151	302	410
Benzene (71-43-2)	-	1.51	3.02	2
n-Butane (106-97-2)	3510	151	302	5000
1-Butanol (71-36-3)	-	151	302	5000
2-Butanol (78-92-2)	-	151	302	5000
2-Butanone (78-93-3)	-	151	302	5000
Cyclohexane (110-82-7)	-	151	302	3880
1,2-Dimethoxyethane (110-71-4)	-	15.1	30.2	100
N,N-Dimethylacetamide (127-19-5)	-	151	302	1090
2,2-Dimethylbutane (75-83-2)	-	52.9	106	290
2,3-Dimethylbutane (79-29-8)	-	52.9	106	290
N,N-Dimethylformamide (68-12-2)	-	151	302	880
Dimethylsulfoxide (67-68-5)	-	151	302	5000
1,4-Dioxane (123-91-1)	-	151	302	380
Ethanol (64-17-5)	418	151	302	5000
2-Ethoxyethanol (110-80-5)	-	52.9	106	160
Ethyl ether (60-29-7)	-	151	302	5000
Ethyl acetate (141-78-6)	-	151	302	5000
Ethyl benzene (100-41-4)	-	151	302	2170
Ethylene glycol (107-21-1)	-	151	302	620
Ethylene oxide (75-21-8)	-	15.1	30.2	50

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
n-Heptane (142-82-5)	-	151	302	5000
n-Hexane (110-54-3)	-	52.9	106	290
Isobutane (75-28-5)	-	151	302	5000
Isopropanol (67-63-0)	-	151	302	5000
Isopropyl acetate (108-21-4)	-	151	302	5000
Isopropyl benzene (98-82-8)	-	15.1	30.2	70
Methanol (67-56-1)	-	151	302	3000
2-Methylbutane (78-78-4)	-	151	302	5000
Methylene chloride (75-9-2)	-	151	302	600
2-Methylpentane (107-83-5)	-	52.9	106	290
3-Methylpentane (96-10-0)	-	52.9	106	290
n-Pentane (109-66-0)	-	151	302	5000
1-Pentanol (71-41-0)	-	151	302	5000
n-Propane (74-98-6)	-	151	302	5000
1-Propanol (71-23-8)	-	151	302	5000
Pyridine (110-86-1)	-	52.9	106	200
Tetrahydrofuran (109-99-9)	-	151	302	720
Tetramethylene sulfone (126-33-0)	-	52.9	106	160
Toluene (108-88-3)	-	151	302	890
o-Xylene (95-47-6)	-	151	302	2170
m,p-Xylene (108-38-3 or 106-42-3)	-	151	302	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.

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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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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 06/20/2023 1518 — **Method:** LC/MS/MS — **Deviations from SOP:** None

Analyst: KF — **Instrument:** Shimadzu LC-8050

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0450	0.360	0.5
Acephate (30560-19-1)	-	0.0450	0.360	0.4
Acequinocyl (57960-19-7)	-	0.0450	0.360	2
Acetamiprid (135410-20-7)	-	0.0450	0.360	0.2
Aldicarb (116-06-3)	-	0.0450	0.360	0.4
Azoxystrobin (131860-33-8)	-	0.0450	0.360	0.2
Bifenazate (149877-41-8)	-	0.0450	0.360	0.2
Bifenthrin (82657-04-3)	-	0.0450	0.360	0.2
Boscalid (188425-85-6)	-	0.0450	0.360	0.4
Carbaryl (63-25-2)	-	0.0450	0.360	0.2
Carbofuran (1563-66-2)	-	0.0450	0.360	0.2
Chlorantraniliprole (800008-45-7)	-	0.0450	0.360	0.2
Chlorfenapyr (122453-73-0)	-	0.0450	0.360	1
Chlorpyrifos (2921-88-2)	-	0.0450	0.360	0.2
Clofentezine (74115-24-5)	-	0.0450	0.360	0.2
Cyfluthrin (68359-37-5)	-	0.0450	0.360	1
Cypermethrin (52315-07-8)	-	0.0450	0.360	1
Daminozide (1596-84-5)	-	0.0450	0.360	1
DDVP (62-73-7)	-	0.0450	0.360	0.1
Diazinon (333-41-5)	-	0.0450	0.360	0.2
Dimethoate (60-51-5)	-	0.0450	0.360	0.2
Ethoprophos (13194-48-4)	-	0.0450	0.360	0.2
Etofenprox (80844-07-1)	-	0.0450	0.360	0.4
Etoxazole (153233-91-1)	-	0.0450	0.360	0.2
Fenoxycarb (72490-01-8)	-	0.0450	0.360	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0450	0.360	0.4
Fipronil (120068-37-3)	-	0.0450	0.360	0.4
Flonicamid (158062-67-0)	-	0.0450	0.360	1
Fludioxinil (131341-86-1)	-	0.0450	0.360	0.4
Hexythiazox (78587-05-0)	-	0.0450	0.360	1
Imazalil (35554-44-0)	-	0.0450	0.360	0.2
Imidacloprid (138261-41-3)	-	0.0450	0.360	0.4

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Kresoxim-methyl (143390-89-0)	-	0.0450	0.360	0.4
Malathion (121-75-5)	-	0.0450	0.360	0.2
Metalaxyl (57837-19-1)	-	0.0450	0.360	0.2
Methiocarb (2032-65-7)	-	0.0450	0.360	0.2
Methomyl (16752-77-5)	-	0.0450	0.360	0.4
Methyl parathion (298-0-0)	-	0.0450	0.360	0.2
MGK 264 (113-48-4)	-	0.0450	0.360	0.2
Myclobutanil (88671-89-0)	-	0.0450	0.360	0.2
Naled (300-76-5)	-	0.0450	0.360	0.5
Oxamyl (23135-22-0)	-	0.0450	0.360	1
Paclobutrazol (76738-62-0)	-	0.0450	0.360	0.4
Permethrins (52645-53-1)	-	0.0450	0.360	0.2
Phosmet (732-11-6)	-	0.0450	0.360	0.2
Piperonyl butoxide (51-03-6)	-	0.0450	0.360	2
Prallethrins (2331-36-9)	-	0.0450	0.360	0.2
Propiconazole (60207-90-1))	-	0.0450	0.360	0.4
Propoxur (114-26-1)	-	0.0450	0.360	0.2
Pyrethrins (8003-34-7)	-	0.0450	0.360	1
Pyridaben (96489-71-3)	-	0.0450	0.360	0.2
Spinosad (168316-95-8)	-	0.0450	0.360	0.2
Spiromesifen (283594-90-1)	-	0.0450	0.360	0.2
Spirotetramat (203313-25-1)	-	0.0450	0.360	0.2
Spiroxamine (118134-30-8)	-	0.0450	0.360	0.4
Tebuconazole (80443-41-0)	-	0.0450	0.360	0.4
Thiacloprid (111988-49-9)	-	0.0450	0.360	0.2
Thiamethoxam (153719-23-4)	-	0.0450	0.360	0.2
Trifloxystrobin (141517-21-7)	-	0.0450	0.360	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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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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License: ADH 113	License: 00065C	E20230612RFLHR02	**Date Received:** 06/20/2023

Cultivar (Strain) or Sample Description: Race Fuel Hybrid HTFSE Resin .5g Cart — **Date Completed:** 06/21/2023

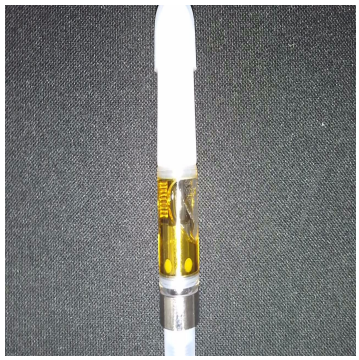
HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 06/20/2023 1716 (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)	-	58.6	92.8	200
Cadmium (Cd)	-	58.6	92.8	200
Lead (Pb)	-	58.6	92.8	500
Mercury (Hg)	-	58.6	92.8	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 RIVER VALLEY RELIEF

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35453)

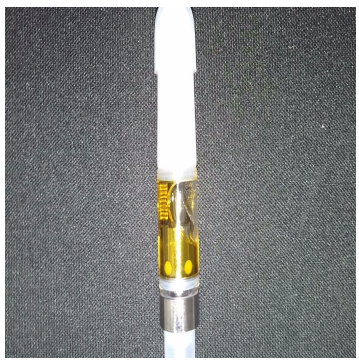
Testing Location:	**Customer ID:** 2168	**Sample ID:** SA35453	**Sample Type:** Primary
Arkansas	River Valley Relief MIPS	**Lot Number:**	**Matrix:** Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13244975869	**Mass:** 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 06/19/2023
License: ADA 05_H273	License: 00065C	E20230612RFLHR02	**Date Received:** 06/20/2023

Cultivar (Strain) or Sample Description: Race Fuel Hybrid HTFSE Resin .5g Cart — **Date Completed:** 06/21/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 06/21/2023 0953 — **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	NT	-
Coliforms, Total	Absent	1
Escherichia Coli (E. Coli)	Absent	100
Mold/Yeast	NT	-
Pseudomonas aeruginosa	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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