



Date Released: 8/12/2024 2:52:47PM

Report #: 20605

Sour Orange Diesel Kush Infused PR

Sample #: 5518, Weight: 13.00g, Unit Count:
 Order #: K240805-0002

Category/Type: Plant, Enhanced Preroll

Date Collected: 8/3/2024 10:06:05AM

Date Received: 8/5/2024 5:56:41AM

Date Sampled: 8/3/2024 10:06:05AM

Regulator Sample ID: 1003261GPRD

Regulator Source Package ID: 1003261GPRD

Regulator Batch ID: 1003261GPRD

Size: 3200Units, Unit Count:



Total Cannabinoids
 40.1 %
 401.1 mg/g



Total THC
 36.3 %
 363.5 mg/g



Total CBD
 0.357 %
 3.570 mg/g



Total Terpenes
 0.0 %



Moisture
 7.9 %



Heavy Metals
 PASS



Microbials
 PASS



Residual Solvents
 PASS



Pesticides
 PASS



Mycotoxins
 PASS



Foreign Matter
 PASS



Water Activity
 PASS

Potency Analysis by HPLC

Total Cannabinoids: **40.1 % - 401.1 mg/g**
 Total THC: **36.3 % - 363.5 mg/g**
 Total CBD: **0.357 % - 3.570 mg/g**

Date Completed: 08/06/2024 9:21AM

Compound	CAS#	LOQ (%)	%	mg/g	Relative Concentration
d9-THC	1972-08-3	0.001000	28.53	285.3	<div style="width: 28.53%;"></div>
THCa	23978-85-0	0.001000	8.915	89.15	<div style="width: 8.915%;"></div>
CBG	25654-31-3	0.001000	0.7838	7.838	<div style="width: 0.7838%;"></div>
CBGa	25555-57-1	0.001000	0.5008	5.008	<div style="width: 0.5008%;"></div>
THCV	31262-37-0	0.001000	0.4321	4.321	<div style="width: 0.4321%;"></div>
CBN	521-35-7	0.001000	0.3917	3.917	<div style="width: 0.3917%;"></div>
CBD	13956-29-1	0.001000	0.2582	2.582	<div style="width: 0.2582%;"></div>
CBC	20675-51-8	0.001000	0.1874	1.874	<div style="width: 0.1874%;"></div>
CBDa	1244-58-2	0.001000	0.1126	1.126	<div style="width: 0.1126%;"></div>
d8-THC	5957-75-5	0.001000	ND	ND	<div style="width: 0%;"></div>
d10/R9-THC	95543-62-7	0.001000	ND	ND	<div style="width: 0%;"></div>
d10/S9-THC	95588-87-7	0.001000	ND	ND	<div style="width: 0%;"></div>

LOQ= Level of Quantitation. ND= Not Detected. Results based on simple acceptance, not taking into consideration measuremental uncertainty.
 If sampled by Keystone State Testing, sampling followed SOP-P-NY500 at the client facility listed above.



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Kelly Greenland

Dr. Kelly Greenland, Lab Director





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Compound	CAS#	LOQ (%)	%	mg/g	Relative Concentration
CBDV	24274-48-4	0.001000	ND	ND	
Test Comment: Cannabinoids analyzed by HPLC using P-NY100. The reported result is based on a sample weight using moisture content for flower samples unless moisture is listed as zero or ND. Unless otherwise stated all QC passed.					
d9-THC		0.001000	28.53	285.3	<div style="width: 28.53%;"></div>
THCa		0.001000	8.915	89.15	<div style="width: 8.915%;"></div>
CBG		0.001000	0.7838	7.838	<div style="width: 0.7838%;"></div>
CBGa		0.001000	0.5008	5.008	<div style="width: 0.5008%;"></div>
THCV		0.001000	0.4321	4.321	<div style="width: 0.4321%;"></div>
CBN		0.001000	0.3917	3.917	<div style="width: 0.3917%;"></div>
CBD		0.001000	0.2582	2.582	<div style="width: 0.2582%;"></div>
CBC		0.001000	0.1874	1.874	<div style="width: 0.1874%;"></div>
CBDa		0.001000	0.1126	1.126	<div style="width: 0.1126%;"></div>
CBDV		0.001000	ND	ND	
d8-THC		0.001000	ND	ND	
d10/R9-THC	95543-62-7	0.001000	ND	ND	
d10/S9-THC	95588-87-7	0.001000	ND	ND	

Terpenes by HS-GC-MS

Date Completed: 08/07/2024 8:44AM

Compound	CAS#	LOQ (%)	%	Relative Concentration
Beta-myrcene	123-35-3	0.1000	ND	
Beta-caryophyllene	87-44-5	0.1000	ND	
Limonene	5989-27-5	0.1000	ND	
Alpha-pinene	80-56-8	0.1000	ND	
Alpha-humulene	6753-98-6	0.1000	ND	
Linalool	78-70-6	0.1000	ND	
Beta-pinene	127-91-3	0.1000	ND	

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Compound	CAS#	LOQ (%)	%	Relative Concentration
Terpinolene	586-62-9	0.1000	ND	
Borneol	464-45-9	0.1000	ND	
Ocimene	13877-91-3	0.1000	ND	
Alpha-bisabolol	515-69-5	0.1000	ND	
Caryophyllene-oxide	1139-30-6	0.1000	ND	
Geraniol	106-24-1	0.1000	ND	
Camphene	79-92-5	0.1000	ND	
Guaiol	489-86-1	0.1000	ND	
Alpha-terpinene	99-86-5	0.1000	ND	
Terpineol	8006-39-1	0.1000	ND	
Fenchol	14575-74-7	0.1000	ND	
Valencene	4630-07-3	0.1000	ND	
Alpha-phellandrene	99-83-2	0.1000	ND	
Farnesene	502-61-4	0.1000	ND	
Camphor	464-49-3	0.1000	ND	
3-Carene	13466-78-9	0.1000	ND	
Alpha-cedrene	469-61-4	0.1000	ND	
Cedrol	77-53-2	0.1000	ND	
Eucalyptol	470-82-6	0.1000	ND	
Fenchone	1195-79-5	0.1000	ND	
Gamma-terpinene	99-85-4	0.1000	ND	
Geranyl Acetate	105-87-3	0.1000	ND	
Isopulegol	89-79-2	0.1000	ND	
Menthol	15356-70-4	0.1000	ND	
Nerol	106-25-2	0.1000	ND	
Nerolidol		0.1000	ND	

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Compound	CAS#	LOQ (%)	%	Relative Concentration
Pulegone	89-82-7	0.1000	ND	
Sabinene	3387-41-5	0.1000	ND	
Sabinene Hydrate	546-79-2	0.1000	ND	

Test Comment: Terpenes tested by GCMS using P-NY210. Unless otherwise stated, all QC passed.

Foreign Matter by microscopy

Pass

Analysis Date: 08/05/2024 5:20 pm

Compound	LOQ (%)	Limits (%)	Result (%)	Status
% Foreign Matter	0.00100	2.0	ND	Pass
Mammalian Exreta	0.00100	0.03	ND	Pass
Stems	0.00100	5.0	ND	Pass

Comment: Physical chemistry was tested using moisture analyzer, water activity meter using P-NY 160. Unless otherwise stated, all QC passed.

Moisture Content

Pass

Analysis Date: 08/05/2024 5:20 pm

Compound	LOQ (%)	Limits (%)	Result (%)	Status
Moisture	1.2	5 - 15	7.9	Pass

Comment: Physical chemistry was tested using moisture analyzer, water activity meter using P-NY 160. Unless otherwise stated, all QC passed.

Water Activity

Pass

Analysis Date: 08/05/2024 5:20 pm

Compound	LOQ (Aw)	Limits (Aw)	Result (Aw)	Status
Water Activity	0.05	0.65	0.57	Pass

Comment: Physical chemistry was tested using moisture analyzer, water activity meter using P-NY 160. Unless otherwise stated, all QC passed.

Pesticides by LCMSMS

Pass

Analysis Date: 08/08/2024 5:17 pm

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Abamectin	0.0100	0.500	ND	Pass
Acephate	0.0100	0.400	ND	Pass

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Pesticides by LCMSMS

Pass

Analysis Date: 08/08/2024 5:17 pm

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Acequinocyl	0.0100	2.00	ND	Pass
Acetamiprid	0.0100	0.200	ND	Pass
Aldicarb	0.0100	0.400	ND	Pass
Azadirachtin	0.0100	1.00	ND	Pass
Azoxystrobin	0.0100	0.200	ND	Pass
Bifenazate	0.0100	0.200	ND	Pass
Bifenthrin	0.0100	0.200	ND	Pass
Boscalid	0.0100	0.400	ND	Pass
Captan	0.0100	1.00	ND	Pass
Carbaryl	0.0100	0.200	ND	Pass
Carbofuran	0.0100	0.200	ND	Pass
Chlorantraniliprole	0.0100	0.200	ND	Pass
Chlordane-alpha	0.0100	1.00	ND	Pass
Chlorfenapyr	0.0100	1.00	ND	Pass
Chlormequat Chloride	0.0100	1.00	ND	Pass
Chlorpyrifos	0.0100	0.200	ND	Pass
Clofentezine	0.0100	0.200	ND	Pass
Coumaphos	0.0100	1.00	ND	Pass
Cyfluthrin	0.0100	1.00	ND	Pass
Cypermethrin	0.0100	1.00	ND	Pass
Daminozide	0.0100	1.00	ND	Pass
Diazinon	0.0100	0.200	ND	Pass
Dichlorvos	0.0100	1.00	ND	Pass
Dimethoate	0.0100	0.200	ND	Pass
Dimethomorph	0.0100	1.00	ND	Pass
Ethoprophos	0.0100	0.200	ND	Pass

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Pesticides by LCMSMS

Pass

Analysis Date: 08/08/2024 5:17 pm

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Etofenprox	0.0100	0.400	ND	Pass
Etoxazole	0.0100	0.200	ND	Pass
Fenhexamid	0.0100	1.00	ND	Pass
Fenoxycarb	0.0100	0.200	ND	Pass
Fenpyroximate	0.0100	0.400	ND	Pass
Fipronil	0.0100	0.400	ND	Pass
Fonicamid	0.0100	1.00	ND	Pass
Fludioxonil	0.0100	0.400	ND	Pass
Hexythiazox	0.0100	1.00	ND	Pass
Imazalil	0.0100	0.200	ND	Pass
Imidacloprid	0.0100	0.400	ND	Pass
Indolebutyric Acid	0.0100	1.00	ND	Pass
Kresoxim-methyl	0.0100	0.400	ND	Pass
Malathion	0.0100	0.200	ND	Pass
Metalaxyl	0.0100	0.200	ND	Pass
Methiocarb	0.0100	0.200	ND	Pass
Methomyl	0.0100	0.400	ND	Pass
Methyl Parathion	0.0100	0.200	ND	Pass
Mevinphos	0.0100	1.00	ND	Pass
MGK-264	0.0100	0.200	ND	Pass
Myclobutanil	0.0100	0.200	ND	Pass
Naled	0.0100	0.500	ND	Pass
Oxamyl	0.0100	1.00	ND	Pass
Paclobutrazol	0.0100	0.400	ND	Pass
Pentachloronitrobenzene	0.0100	1.00	ND	Pass
Permethrins, Total	0.0100	0.200	ND	Pass

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Pesticides by LCMSMS

Pass

Analysis Date: 08/08/2024 5:17 pm

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Phosmet	0.0100	0.200	ND	Pass
Piperonyl Butoxide	0.0100	2.00	ND	Pass
Prallethrin	0.0100	0.200	ND	Pass
Propiconazole	0.0100	0.400	ND	Pass
Propoxur	0.0100	0.200	ND	Pass
Pyrethrins Total	0.0100	1.00	ND	Pass
Pyridaben	0.0100	0.200	ND	Pass
Spinetoram Total	0.0100	1.00	ND	Pass
Spinosad Total	0.0100	0.200	ND	Pass
Spiromesifen	0.0100	0.200	ND	Pass
Spirotetramat	0.0100	0.200	ND	Pass
Spiroxamine	0.0100	0.200	ND	Pass
Tebuconazole	0.0100	0.400	ND	Pass
Thiacloprid	0.0100	0.200	ND	Pass
Thiamethoxam	0.0100	0.200	ND	Pass
Trifloxystrobin	0.0100	0.200	ND	Pass

Comment: Pesticides tested by LCMSMS by using P-NY150. Unless otherwise stated, all QC passed.

Residual Solvents by HS-GC-MS

Pass

Analysis Date: 08/07/2024 12:30 pm

Compound	LOQ (ppm)	Limits (ppm)	Result (ppm)	Status
1,2-Dichloroethane	0.0500	5.00	ND	Pass
Acetone	50.00	5000	ND	Pass
Acetonitrile	50.00	410	ND	Pass
Benzene	0.5000	2.00	ND	Pass
Butanes Total	25.00	5000	ND	Pass
Chloroform	0.5000	60.0	ND	Pass

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Residual Solvents by HS-GC-MS

Pass

Analysis Date: 08/07/2024 12:30 pm

Compound	LOQ (ppm)	Limits (ppm)	Result (ppm)	Status
Dimethyl Sulfoxide (DMSO)	50.00	5000	ND	Pass
Ethanol	50.00	5000	ND	Pass
Ethyl acetate	50.00	5000	ND	Pass
Ethyl ether	50.00	5000	ND	Pass
Freon	50.00	1000	ND	Pass
Heptane	50.00	5000	ND	Pass
Hexanes Total	10.00	290	ND	Pass
Isopropanol	50.00	5000	ND	Pass
Methanol	50.00	3000	ND	Pass
Methylene chloride	50.00	600	ND	Pass
Pentanes Total	16.70	5000	ND	Pass
Propane	50.00	5000	ND	Pass
Toluene	50.00	890	ND	Pass
Total xylenes	25.00	2170	ND	Pass
Trichloroethane (1,1,1,-)	50.00	1500	ND	Pass

Comment: Residual Solvents tested by GCMS using P-NY170. Unless otherwise stated, all QC passed. "TIC" stands for Tentatively Identified Compound but not quantitated.

Mycotoxins

Pass

Analysis Date: 08/08/2024 5:17 pm

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Aflatoxin B1	0.0050	0.020	ND	Pass
Aflatoxin B2	0.0050	0.020	ND	Pass
Aflatoxin G1	0.0050	0.020	ND	Pass
Aflatoxin G2	0.0050	0.020	ND	Pass
Ochratoxin A	0.0050	0.020	ND	Pass
Total Aflatoxin	0.0050	0.020	ND	Pass

Comment: Mycotoxin contamination tested by LCMSMS using P-NY125. Unless otherwise stated, all QC passed.

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Metals		Pass		Analysis Date: 08/08/2024 4:56 pm	
Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status	
Antimony	0.0100	2.00	ND	Pass	
Arsenic	0.00100	0.200	ND	Pass	
Cadmium	0.00150	0.200	ND	Pass	
Chromium	0.280	110	ND	Pass	
Copper	0.0750	30.0	ND	Pass	
Lead	0.00250	0.500	ND	Pass	
Mercury	0.000500	0.100	ND	Pass	
Nickel	0.0100	5.00	ND	Pass	

Comment: Heavy Metal contamination tested by ICPMS using P-NY140. Unless otherwise stated, all QC passed.

Microbials Count/Qualitative		Pass		Analysis Date: 08/07/2024 12:20 pm	
Compound	LOQ (CFU/g)	Limits (CFU/g)	Result (CFU/g)	Status	
Aspergillus flavus Qualitative	1	0	Not Detected	Pass	
Aspergillus fumigatus Qualitative	1	0	Not Detected	Pass	
Aspergillus niger Qualitative	1	0	Not Detected	Pass	
Aspergillus terreus Qualitative	1	0	Not Detected	Pass	
Salmonella Qualitative	1	0	Not Detected	Pass	
Shiga Toxin-Producing E. coli Qualitative	1	0	Not Detected	Pass	
Total Aerobic Bacteria	10		3000	Pass	
Total Yeast & Mold	10		4000	Pass	

Comment: Microbial contamination tested by Petrifilm plates and qPCR using P-NY120. Unless otherwise stated, all QC passed.
Due to COA validation limitations: "Not Detected" = "Absent" and "Detected" = "Presumptive Presence". Acceptance Limits: "0" = "Absence" and "1" = "Presence". "Passed" for an adult-use product implies the results contain less than 1,000,000 cfu/g.

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