



Certificate of Analysis

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1 of 13

HQFarms

10770 SE 362ND AVE
Boring, OR 97009
hqfarmspdx@gmail.com
(503) 799-1231
Lic. #020-1003165E8AB

Sample: 2402CH0327.1289

Strain: Grandpas RPG
Batch#: ; Batch Size: 1735 g
Sample Received: 02/22/2024; Report Created: 02/27/2024
Harvest/Production Date: 01/02/2024
Sampling: Random; Environment: Room Temp

Grandpas RPG

Plant, Flower - Cured
Harvest Process Lot: F3-H17; METRC Batch: 3274; METRC Sample: 1A4010300008B15000003259



Pass

Pesticides

Pass

Microbials

Cannabinoids

1590 HPLC4 20240223-2
02/23/2024

Pass

25.02%

Total THC* (Calculated
Decarboxylated Potential)

0.09%

Total CBD** (Calculated
Decarboxylated Potential)

Pass

Mycotoxins

Pass

Heavy Metals

30.30%

Total Cannabinoids Analyzed

Moisture

7.9%

Water
Activity

0.53

0.655 Limit



5691 SE International Way
Portland, OR
(503) 305-5252
<http://chemhistory.com>
Lic# OLCC 010-1002015CA5E ORELAP 4057

Patrick Trujillo
Laboratory Director

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Cannabinoids

1590 HPLC4 20240223-2
02/23/2024

Pass

25.02%

Total THC* (Calculated
Decarboxylated Potential)

0.09%

Total CBD** (Calculated
Decarboxylated Potential)

30.30%

Total Cannabinoids Analyzed

Analyte	LOQ	Mass	Mass
	mg/g	%	mg/g
THCa	0.4	27.82	278.2
Δ9-THC	0.4	0.63	6.3
Δ8-THC	0.4	<LOQ	<LOQ
THCV	0.4	<LOQ	<LOQ
CBDa	0.4	0.10	1.0
CBD	0.4	<LOQ	<LOQ
CBDV	0.4	<LOQ	<LOQ
CBN	0.4	<LOQ	<LOQ
CBGa	0.4	1.46	14.6
CBG	0.4	0.19	1.9
CBC	0.4	0.10	1.0
Total		30.30	303.0

Method: CH SOP 4400

*Total THC = THCa * 0.877 + d9-THC. **Total CBD = CBDa * 0.877 + CBD. LOQ = Limit of Quantification; NR = Not Reported; ND = Not Detected

>ULOQ = above upper LOQ. ChemHistory estimates its internal laboratory uncertainty acceptance limits to be 7% for sample cannabinoid potency results.



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Pesticides

1773 LCQQQ3 20240223-2
02/24/2024

Pass

Analyte	LOQ	Limit	Mass	Status	Analyte	LOQ	Limit	Mass	Status
	PPB	PPB	PPB			PPB	PPB	PPB	
Abamectin	400	500	<LOQ	Pass	Imazalil	100	200	<LOQ	Pass
Acephate	100	400	<LOQ	Pass	Imidacloprid	100	400	<LOQ	Pass
Acequinocyl	400	2000	<LOQ	Pass	Kresoxim Methyl	100	400	<LOQ	Pass
Acetamiprid	100	200	<LOQ	Pass	Malathion	100	200	<LOQ	Pass
Aldicarb	200	400	<LOQ	Pass	Metalaxyl	100	200	<LOQ	Pass
Azoxystrobin	100	200	<LOQ	Pass	Methiocarb	100	200	<LOQ	Pass
Bifenazate	100	200	<LOQ	Pass	Methomyl	100	400	<LOQ	Pass
Bifenthrin	100	200	<LOQ	Pass	Methyl Parathion	100	200	<LOQ	Pass
Boscalid	200	400	<LOQ	Pass	MGK-264	100	200	<LOQ	Pass
Carbaryl	100	200	<LOQ	Pass	Myclobutanil	100	200	<LOQ	Pass
Carbofuran	100	200	<LOQ	Pass	Naled	100	500	<LOQ	Pass
Chlorantraniliprole	100	200	<LOQ	Pass	Oxamyl	100	1000	<LOQ	Pass
Chlorfenapyr	400	1000	<LOQ	Pass	Paclobutrazol	100	400	<LOQ	Pass
Chlorpyrifos	100	200	<LOQ	Pass	Permethrins	100	200	<LOQ	Pass
Clofentezine	100	200	<LOQ	Pass	Phosmet	100	200	<LOQ	Pass
Cyfluthrin	400	1000	<LOQ	Pass	Piperonyl Butoxide	100	2000	<LOQ	Pass
Cypermethrin	400	1000	<LOQ	Pass	Prallethrin	100	200	<LOQ	Pass
Daminozide	400	1000	<LOQ	Pass	Propiconazole	200	400	<LOQ	Pass
Diazinon	100	200	<LOQ	Pass	Propoxur	100	200	<LOQ	Pass
Dichlorvos	200	1000	<LOQ	Pass	Pyrethrins	200	1000	<LOQ	Pass
Dimethoate	100	200	<LOQ	Pass	Pyridaben	100	200	<LOQ	Pass
Ethoprophos	100	200	<LOQ	Pass	Spinosad	100	200	<LOQ	Pass
Etofenprox	200	400	<LOQ	Pass	Spiromesifen	100	200	<LOQ	Pass
Etoxazole	100	200	<LOQ	Pass	Spirotetramat	100	200	<LOQ	Pass
Fenoxycarb	100	200	<LOQ	Pass	Spiroxamine	100	400	<LOQ	Pass
Fenpyroximate	200	400	<LOQ	Pass	Tebuconazole	100	400	<LOQ	Pass
Fipronil	100	400	<LOQ	Pass	Thiacloprid	100	200	<LOQ	Pass
Flonicamid	200	1000	<LOQ	Pass	Thiamethoxam	100	200	<LOQ	Pass
Fludioxonil	200	400	<LOQ	Pass	Trifloxystrobin	100	200	<LOQ	Pass
Hexythiazox	200	1000	<LOQ	Pass					

Method: Modified AOAC 2007.01, Triple Quad analysis; LOQ = Limit of Quantification; PPB = Parts Per Billion; ND = Not Detected; NR = Not Reported; ORELAP ID 4057. ChemHistory estimates its internal laboratory uncertainty acceptance limits to be 7% for sample pesticide results.



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Heavy Metals

627 ICPMS1 20240223-5
02/23/2024 12:00

Pass

Analyte	Mass	LOQ	Limit	Status
	PPB	PPB	PPB	
Arsenic	<LOQ	40.0	200.0	Pass
Cadmium	<LOQ	40.0	200.0	Pass
Lead	<LOQ	100.0	500.0	Pass
Mercury	<LOQ	20.0	100.0	Pass

ChemHistory estimates its internal laboratory uncertainty acceptance limits to be 14.5% for sample heavy metal results.
Method: Modified AOAC 2013.06.



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Terpenes

568 GCFID3 20240223-1
02/23/2024

Analyte	Mass %	Mass mg/g	LOQ %	Analyte	Mass %	Mass mg/g	LOQ %
cis-Phytol	<LOQ	<LOQ	0.02	γ-Terpinene	<LOQ	<LOQ	0.02
Valencene	0.05	0.5	0.02	Anisole	<LOQ	<LOQ	0.02
Sabinene	<LOQ	<LOQ	0.02	Fenchone	<LOQ	<LOQ	0.02
Ocimene 1	<LOQ	<LOQ	0.02	Isoborneol	<LOQ	<LOQ	0.02
Geraniol	<LOQ	<LOQ	0.02	δ-Limonene	0.13	1.3	0.02
Neral	<LOQ	<LOQ	0.02	Ocimene 2	0.07	0.7	0.02
α-Humulene	0.11	1.1	0.02	Camphene	<LOQ	<LOQ	0.02
α-Terpinene	<LOQ	<LOQ	0.02	α-Phellandrene	<LOQ	<LOQ	0.02
trans-Phytol	<LOQ	<LOQ	0.02	γ-Terpineol	<LOQ	<LOQ	0.02
Caryophyllene Oxide	<LOQ	<LOQ	0.02	Geranyl Acetate	<LOQ	<LOQ	0.02
(-)-β-Pinene	0.03	0.3	0.02	β-Caryophyllene	0.32	3.2	0.02
α-Pinene	<LOQ	<LOQ	0.02	Sabinene Hydrate	<LOQ	<LOQ	0.02
Camphor	<LOQ	<LOQ	0.02	Nerol	<LOQ	<LOQ	0.02
(-)-α-Bisabolol	0.05	0.5	0.02	trans-Nerolidol	0.12	1.2	0.02
α-Cedrene	<LOQ	<LOQ	0.02	Borneol	<LOQ	<LOQ	0.02
Terpinolene	<LOQ	<LOQ	0.02	Hexahydro Thymol	<LOQ	<LOQ	0.02
Endo-Fenchyl Alcohol	<LOQ	<LOQ	0.02	Squalene	<LOQ	<LOQ	0.02
p-Isopropyltoluene	<LOQ	<LOQ	0.02	δ-3-Carene	<LOQ	<LOQ	0.02
Azulene	<LOQ	<LOQ	0.02	Eucalyptol	<LOQ	<LOQ	0.02
α-Terpineol	<LOQ	<LOQ	0.02	Eugenol	<LOQ	<LOQ	0.02
Cedrol	<LOQ	<LOQ	0.02	(-)-Isopulegol	<LOQ	<LOQ	0.02
Citral	<LOQ	<LOQ	0.02	Pulegone	<LOQ	<LOQ	0.02
(-)-Guaial	<LOQ	<LOQ	0.02	cis-Nerolidol	<LOQ	<LOQ	0.02
Linalool	0.08	0.8	0.02	β-Farnesene	<LOQ	<LOQ	0.02
Neryl Acetate	<LOQ	<LOQ	0.02	cis-β-Farnesene	0.03	0.3	0.02
β-Myrcene	0.57	5.7	0.02	α-Farnesene	0.03	0.3	0.02

Primary Aromas



Method: GC-FID CH SOP 4401; based on dry weight; LOQ = Limit of Quantification; NR = Not Reported; ND = Not Detected



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Microbials (3M Petrifilm)

7569001059 MA1 20240224-4
02/24/2024

Pass

Analyte	Units	Status
	CFU/g	
Yeast & Mold	NR	NT
E. Coli	NR	NT
Coliforms	NR	NT
Aerobic Bacteria	NR	NT
Enterobacteriaceae	NR	NT

Salmonella Plant Method - CH SOP 4606, STEC Plant Method - CH SOP 4607; CN Asp, STEC, & Salm Method - CH SOP 4610

Molecular Assays (RT-qPCR)

7569001059 MA1 20240224-4
02/24/2024

Pass

Analyte	Result	Status
Hop-Latent Viroid	NR	NT
Cannabis Cryptic Virus	NR	NT
Lettuce Chlorosis Virus	NR	NT
Shiga Toxin E. Coli	Negative	Tested
Aspergillus	NR	NT
Seedling Sex Determination	NR	NT
Salmonella	Negative	Tested



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Technical Director - Microbiology

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Mycotoxins

1773 LCQQQ3 20240223-2

Pass

Analyte	LOQ	Limit	Units	Status
	PPB	PPB	PPB	
B1	10.00		<LOQ	Tested
B2	10.00		<LOQ	Tested
G1	10.00		<LOQ	Tested
G2	10.00		<LOQ	Tested
Ochratoxin A	10.00	20.00	<LOQ	Pass
Total Aflatoxins	10.00	20.00	<LOQ	Pass

Method: Modified AOAC 2007.01, Triple Quad analysis; LOQ = Limit of Quantification; PPB = Parts Per Billion; ND = Not Detected; NR = Not Reported; ORELAP ID 4057. ChemHistory estimates its internal laboratory uncertainty acceptance limits to be 7% for sample pesticide results.



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
1590 HPLC4 20240223-2	PMS02222401F	Cannabinoids	Sample Duplicate

QC Notes

None

Compound	Blank	LCS Result	LCS (Expected)	LOQ	Matrix Duplicate	Sample Matrix	Matrix Spike % Rec.	LCS % Rec.	Acceptance Criteria	Units
THCa	0	22.02	21.65	0.04	28.92	28.67	87.986	101.709	90%-110%	%
Δ9-THC	0	5.74	5.58	0.04	0.48	0.46	99.335	102.867	90%-110%	%
CBDa	0	3	2.94	0.04	0.1	0.09	98.324	102.041	90%-110%	%
CBD	0	0.59	0.59	0.04	0	0	99.620	100	90%-110%	%
Δ8-THC	0	0	0	0.04	0	0	99.401	ERR	90%-110%	%

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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
627 ICPMS1 20240223-5	HMLCSD02222401F	Heavy Metals	Sample Duplicate

QC Notes

None

Heavy Metal	ICV amount	Blank amount	LCS amount	LCS Dup amount	CCV amount	LCS Expected	LCS % Recovery	LCS RPD %	Units	LCS Acceptance Limits
Arsenic	503	<LOQ	490.6	483.2	513.5	448.8	109.314	1.520	ppb	80-115%
Cadmium	510.8	<LOQ	501	505	518.2	459.37	109.062	0.795	ppb	80-115%
Mercury	507.8	<LOQ	495.4	501.2	526.9	468.11	105.830	1.164	ppb	80-115%
Lead	589.7	<LOQ	587.4	617.2	521.5	526.1	111.652	4.948	ppb	80-115%



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
1773 LCQQQ3 20240223-2	MRLCS02222401Fm	Mycotoxins	Sample Duplicate

QC Notes

None

Aflatoxins	ICV amount	Blank amount	LCS amount	CCV amount	LCS Expected	LCS % Recovery	Units	LCS Acceptance Limits
B1	372.53	0	400.6	242.91	400	1.0015	ppb	60-120%
B2	346.02	0	383.66	365.08	400	0.959	ppb	60-120%
G1	368.9	0	396.19	399.42	400	0.990475	ppb	60-120%
G2	323.92	0	363.54	399.09	400	0.90885	ppb	60-120%
Ochratoxin A	315.58	0	358.94	361.54	400	0.89735	ppb	60-120%

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Lic. #020-1003165E8AB

Sample: 2402CH0327.1289

Strain: Grandpas RPG
Batch#: ; Batch Size: 1735 g
Sample Received: 02/22/2024; Report Created: 02/27/2024
Harvest/Production Date: 01/02/2024
Sampling: Random; Environment: Room Temp

Grandpas RPG

Plant, Flower - Cured
Harvest Process Lot: F3-H17; METRC Batch: 3274; METRC Sample: 1A401030008B15000003259



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
7569001059 MA1 20240224-4	MLCS02222401F	Required Microbials	Sample Duplicate

QC Notes

None

Analyte	Method Blank	Method LCS	Batch Blank	Batch LCS
Aspergillus	-	-	-	-
Salmonella	Absent	Present	Absent	Present
Shiga Toxin E. Coli	Absent	Present	Absent	Present

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HQFarms

10770 SE 362ND AVE
Boring, OR 97009
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(503) 799-1231
Lic. #020-1003165E8AB

Sample: 2402CH0327.1289

Strain: Grandpas RPG
Batch#: ; Batch Size: 1735 g
Sample Received: 02/22/2024; Report Created: 02/27/2024
Harvest/Production Date: 01/02/2024
Sampling: Random; Environment: Room Temp

Grandpas RPG

Plant, Flower - Cured
Harvest Process Lot: F3-H17; METRC Batch: 3274; METRC Sample: 1A401030008B15000003259



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
1773 LCQQQ3 20240223-2	MRMSO2222401F	Required Pesticides	Sample Duplicate

QC Notes

None

Compound	Blank Result	LCS Result	Matrix Spike Result	Matrix Spike Duplicate Result	Matrix Result	Expected LCS	Units	Acceptance Criteria
Acephate	0	10106	11884	11409	0	9522.357	PPB	60%-120%
Acequinocyl	0	8957	15673	16839	0	9692.167	PPB	40%-160%
Acetamidrid	0	10427	12774	12275	0	9746.548	PPB	60%-120%
Aldicarb	0	10033	12287	11849	0	10280.79	PPB	60%-120%
Abamectin (B1a, B1b)	0	9773	10722	9735	0	9603.238	PPB	50%-150%
Azoxystrobin	0	10286	12427	11976	0	9747.286	PPB	60%-120%
Bifenazate	0	10190	12534	11946	0	9849.929	PPB	60%-120%
Bifenthrin	0	9510	38189	39753	0	10025.12	PPB	50%-150%
Boscalid	0	10122	12539	12180	0	9768.929	PPB	60%-120%
Carbaryl	0	11301	13427	12706	0	10135.14	PPB	60%-120%
Carbofuran	0	10344	12480	12002	0	9897.31	PPB	60%-120%
Chlorantraniliprole	0	10361	14205	13849	0	9782.19	PPB	60%-120%
Chlorfenapyr	0	10370	12591	12044	0	9730.19	PPB	60%-120%
Chlorpyrifos	0	10239	12699	12129	0	9783.881	PPB	60%-120%
Clofentezine	0	9929	12336	12023	0	9501.452	PPB	60%-120%
Cyfluthrin	0	9718	15245	15255	0	9671.405	PPB	50%-150%
Cypermethrin	0	9695	12874	12064	0	9709.214	PPB	50%-150%
Daminozide	0	10115	14768	13844	0	9268.524	PPB	60%-120%
Diazinon	0	10265	12106	11642	0	9590.214	PPB	60%-120%
Dichlorvos	0	10506	12990	12368	0	10034.26	PPB	60%-120%
Dimethoate	0	10052	12623	12015	0	9607.5	PPB	60%-120%
Ethoprophos	0	10204	10990	12212	0	9666.5	PPB	60%-120%
Etofenprox	0	8547	11354	11790	0	9997	PPB	50%-150%
Etoxazole	0	10153	12304	11687	0	9574.69	PPB	60%-120%
Fenoxycarb	0	10279	11442	11077	0	9937.31	PPB	60%-120%
Fenpyroximate	0	9988	12425	11782	0	9599.762	PPB	60%-120%
Fipronil	0	10294	13529	12986	0	9942.643	PPB	60%-120%
Flonicamid	0	10570	12596	12105	0	9810	PPB	60%-120%
Fludioxonil	0	10208	10921	11543	0	10013.74	PPB	50%-150%
Hexythiazox	0	10110	13103	12523	0	9718.833	PPB	60%-120%

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Sample: 2402CH0327.1289

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Plant, Flower - Cured
Harvest Process Lot: F3-H17; METRC Batch: 3274; METRC Sample: 1A401030008B15000003259



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
1773 LCQQQ3 20240223-2	MRMSO2222401F	Required Pesticides	Sample Duplicate

QC Notes

None

Compound	Blank Result	LCS Result	Matrix Spike Result	Matrix Spike Duplicate Result	Matrix Result	Expected LCS	Units	Acceptance Criteria
Imazalil	0	9298	10349	9589	0	9631.119	PPB	60%-120%
Imidacloprid	0	10574	11319	10452	0	9807.976	PPB	60%-120%
Kresoxim-methyl	0	9933	10643	10444	0	9736.476	PPB	60%-120%
Malathion	0	11529	14185	13727	0	9980.905	PPB	60%-120%
Metalaxyl	0	10293	11768	11450	0	9685.929	PPB	60%-120%
Methiocarb	0	11161	13595	13896	0	10182.83	PPB	60%-120%
Methomyl	0	10267	12298	11875	0	9758.095	PPB	60%-120%
Methyl-Parathion	0	10703	13784	12889	0	10093.02	PPB	50%-150%
MGK-264	0	9867	12629	12433	0	9785.167	PPB	50%-150%
Myclobutanil	0	10164	12381	11755	0	9668.31	PPB	60%-120%
Naled	0	10989	12416	11983	0	9482.31	PPB	50%-150%
Oxamyl	0	10197	12103	11648	0	9685.429	PPB	60%-120%
Paclobutrazol	0	10006	12988	13231	0	9775.976	PPB	60%-120%
Permethrin	0	9316	12914	13309	0	9893.262	PPB	50%-150%
Phosmet	0	11417	13104	13816	0	10074.29	PPB	50%-150%
Piperonyl Butoxide	0	10324	12662	12128	0	9707.333	PPB	60%-120%
Prallethrin	0	9661	10715	10392	0	9042.381	PPB	60%-120%
Propiconazole	0	10087	10874	10534	0	9533.643	PPB	60%-120%
Propoxur	0	10279	12419	12214	0	9899.595	PPB	60%-120%
Pyrethrins (Pyrethrin I)	0	6216	6283	6028	0	6310.786	PPB	60%-120%
Pyridaben	0	9951	12498	11988	0	9620.095	PPB	50%-150%
Spinosad (A&D)	0	8000	11376	10248	0	8963.286	PPB	50%-150%
Spiromesifen	0	10781	13833	13402	0	9740.214	PPB	60%-120%
Spirotetramat	0	10282	12403	11670	0	9621.357	PPB	60%-120%
Spiroxamine	0	8538	10577	9627	0	8817.595	PPB	60%-120%
Tebuconazole	0	10178	11703	11196	0	9746.071	PPB	60%-120%
Thiacloprid	0	10256	12566	12104	0	9754.024	PPB	60%-120%
Thiamethoxam	0	10531	11591	11130	0	9621.357	PPB	60%-120%
Trifloxystrobin	0	10202	12466	12196	0	9741.071	PPB	60%-120%

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