



# Certificate of Analysis

Powered by Confident LIMS  
1 of 13

## East Fork Hemp

10325 Takilma Rd.  
Cave Junction, OR 97523  
info@eastforkcultivars.com  
(503) 381-9897  
Lic. #AG-R1065578 HGS

Sample: 2311CH0420.1732

Strain: Blue Orchid  
Batch#: ; Batch Size: 21610.4 g  
Sample Received: 11/28/2023; Report Created: 12/01/2023  
Harvest/Production Date: 10/02/2023  
Sampling: Random; Environment: Room Temp

## Blue Orchid

Plant, Flower - Cured  
Harvest Process Lot: ; METRC Batch: 1A401050002D7BE000001687; METRC Sample: 1A401050002D7BE000001709



Pass

Pesticides

Pass

Microbials

## Cannabinoids

1036 HPLC6 20231129-2  
11/29/2023

Pass

0.48%

Total THC\* (Calculated  
Decarboxylated Potential)

12.24%

Total CBD\*\* (Calculated  
Decarboxylated Potential)

Pass

Mycotoxins

Pass

Heavy Metals

14.89%

Total Cannabinoids Analyzed

Moisture  
7.2%

Water  
Activity  
0.46  
0.655 Limit



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http://chemhistory.com  
Lic# OLCC 010-1002015CA5E ORELAP 4057

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Laboratory Director

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## Cannabinoids

1036 HPLC6 20231129-2  
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Pass

**0.48%**

Total THC\* (Calculated  
Decarboxylated Potential)

**12.24%**

Total CBD\*\* (Calculated  
Decarboxylated Potential)

**14.89%**

Total Cannabinoids Analyzed

Analyte	LOQ	Mass	Mass
	mg/g	%	mg/g
THCa	0.4	0.43	4.3
Δ9-THC	0.4	0.10	1.0
Δ8-THC	0.4	<LOQ	<LOQ
THCV	0.4	<LOQ	<LOQ
CBDa	0.4	13.45	134.5
CBD	0.4	0.44	4.4
CBDV	0.4	<LOQ	<LOQ
CBN	0.4	<LOQ	<LOQ
CBGa	0.4	0.30	3.0
CBG	0.4	0.09	0.9
CBC	0.4	0.08	0.8
<b>Total</b>		<b>14.89</b>	<b>148.9</b>

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

1736 LCQQQ3 20231129-1  
11/29/2023

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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Harvest Process Lot: ; METRC Batch: 1A401050002D7BE000001687; METRC Sample: 1A401050002D7BE000001709



## Heavy Metals

566 ICPMS1 20231129-7  
11/29/2023 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

1314 GCFID1 20231130-1  
11/30/2023

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	0.03	0.3	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	0.10	1.0	0.02
Neral	<LOQ	<LOQ	0.02	Ocimene 2	0.14	1.4	0.02
α-Humulene	0.07	0.7	0.02	Camphene	<LOQ	<LOQ	0.02
α-Terpinene	<LOQ	<LOQ	0.02	α-Phellandrene	0.03	0.3	0.02
trans-Phytol	0.03	0.3	0.02	γ-Terpineol	<LOQ	<LOQ	0.02
Caryophyllene Oxide	0.03	0.3	0.02	Geranyl Acetate	<LOQ	<LOQ	0.02
(-)-β-Pinene	0.11	1.1	0.02	β-Caryophyllene	0.20	2.0	0.02
α-Pinene	0.28	2.8	0.02	Sabinene Hydrate	<LOQ	<LOQ	0.02
Camphor	<LOQ	<LOQ	0.02	Nerol	<LOQ	<LOQ	0.02
(-)-α-Bisabolol	0.07	0.7	0.02	trans-Nerolidol	<LOQ	<LOQ	0.02
α-Cedrene	<LOQ	<LOQ	0.02	Borneol	<LOQ	<LOQ	0.02
Terpinolene	0.20	2.0	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
(-)-Guaiaol	<LOQ	<LOQ	0.02	cis-Nerolidol	<LOQ	<LOQ	0.02
Linalool	0.03	0.3	0.02	β-Farnesene	<LOQ	<LOQ	0.02
Neryl Acetate	<LOQ	<LOQ	0.02	cis-β-Farnesene	0.15	1.5	0.02
β-Myrcene	0.68	6.8	0.02	α-Farnesene	0.10	1.0	0.02

## Primary Aromas

2.25% Total Terpenes	 Hops	 Pine	 Cinnamon	 Turpentine	 Magnolia
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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)

7566003004 MA1 20231130-2  
11/30/2023

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)

7566003004 MA1 20231130-2  
11/30/2023

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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## Mycotoxins

1736 LCQQQ3 20231129-1

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
1036 HPLC6 20231129-2	PMS11282301F	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	21.84	21.65	0.04	0.57	0.62	95.707	100.878	90%-110%	%
Δ9-THC	0	5.61	5.58	0.04	0.22	0.27	99.777	100.538	90%-110%	%
CBDa	0	3.08	2.94	0.04	17.22	18.3	84.433	104.762	90%-110%	%
CBD	0	0.61	0.59	0.04	0.89	0.95	96.781	103.390	90%-110%	%
Δ8-THC	0	0	0	0.04	0	0.03	101.5625	ERR	90%-110%	%

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## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
566 ICPMS1 20231129-7	HMMB11282301F	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	493.1	<LOQ	459.6	463.8	486.6	448.8	102.406	0.910	ppb	80-115%
Cadmium	499.9	<LOQ	478.2	481	497.9	459.37	104.099	0.584	ppb	80-115%
Mercury	505.8	<LOQ	489	500.8	508.8	468.11	104.463	2.384	ppb	80-115%
Lead	485.8	<LOQ	577.8	588.8	509.5	526.1	109.827	1.886	ppb	80-115%

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## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
1736 LCQQQ3 20231129-1	MRMB11282301FM	Mycotoxins	Sample Duplicate

### QC Notes

None

Aflatoxins	ICV amount	Blank amount	LCS amount	CCV amount	LCS Expected	LCS % Recovery	Units	LCS Acceptance Limits
B1	381.72	0	455	412.92	400	1.1375	ppb	60-120%
B2	373.64	0	408.58	374.08	400	1.02145	ppb	60-120%
G1	376.68	0	409.18	413.5	400	1.02295	ppb	60-120%
G2	350.56	0	422.56	405.1	400	1.0564	ppb	60-120%
Ochratoxin A	415.45	0	392.08	453.05	400	0.9802	ppb	60-120%

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## East Fork Hemp

10325 Takilma Rd.  
Cave Junction, OR 97523  
info@eastforkcultivars.com  
(503) 381-9897  
Lic. #AG-R1065578 HGS

Sample: 2311CH0420.1732

Strain: Blue Orchid  
Batch#: ; Batch Size: 21610.4 g  
Sample Received: 11/28/2023; Report Created: 12/01/2023  
Harvest/Production Date: 10/02/2023  
Sampling: Random; Environment: Room Temp

## Blue Orchid

Plant, Flower - Cured  
Harvest Process Lot: ; METRC Batch: 1A401050002D7BE000001687; METRC Sample: 1A401050002D7BE000001709



## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
7566003004 MA1 20231130-2	MMB11282301F	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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## East Fork Hemp

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## Sample: 2311CH0420.1732

Strain: Blue Orchid  
Batch#: ; Batch Size: 21610.4 g  
Sample Received: 11/28/2023; Report Created: 12/01/2023  
Harvest/Production Date: 10/02/2023  
Sampling: Random; Environment: Room Temp

## Blue Orchid

Plant, Flower - Cured  
Harvest Process Lot: ; METRC Batch: 1A401050002D7BE00001687; METRC Sample: 1A401050002D7BE00001709



## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
1736 LCQQQ3 20231129-1	MRMB11282301F	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	9037	10011	9987	0	9522.357	PPB	60%-120%
Acequinocyl	0	9204	11660	11971	0	9692.167	PPB	40%-160%
Acetamiprid	0	9746	10741	10721	0	9746.548	PPB	60%-120%
Aldicarb	0	9556	10855	10810	0	10280.79	PPB	60%-120%
Abamectin (B1a, B1b)	0	8812	6993	6763	0	9603.238	PPB	50%-150%
Azoxystrobin	0	9389	10461	10368	0	9747.286	PPB	60%-120%
Bifenazate	0	9473	10637	10612	0	9849.929	PPB	60%-120%
Bifenthrin	0	9289	34459	33632	0	10025.12	PPB	50%-150%
Boscalid	0	9435	10780	10345	0	9768.929	PPB	60%-120%
Carbaryl	0	9669	11031	10873	0	10135.14	PPB	60%-120%
Carbofuran	0	9525	10817	10819	0	9897.31	PPB	60%-120%
Chlorantraniliprole	0	9537	10837	10802	0	9782.19	PPB	60%-120%
Chlorfenapyr	0	9874	5738	5718	0	9730.19	PPB	60%-120%
Chlorpyrifos	0	9464	10849	10881	0	9783.881	PPB	60%-120%
Clofentezine	0	9574	8844	9050	0	9501.452	PPB	60%-120%
Cyfluthrin	0	9921	10298	10273	0	9671.405	PPB	50%-150%
Cypermethrin	0	9456	10183	10211	0	9709.214	PPB	50%-150%
Daminozide	0	8611	8353	7974	0	9268.524	PPB	60%-120%
Diazinon	0	9365	7235	6737	0	9590.214	PPB	60%-120%
Dichlorvos	0	9401	10753	10763	0	10034.26	PPB	60%-120%
Dimethoate	0	9328	10688	10597	0	9607.5	PPB	60%-120%
Ethoprophos	0	9135	10373	10135	0	9666.5	PPB	60%-120%
Etofenprox	0	9939	20999	21688	0	9997	PPB	50%-150%
Etoxazole	0	9368	10516	10397	0	9574.69	PPB	60%-120%
Fenoxycarb	0	9472	6125	5756	0	9937.31	PPB	60%-120%
Fenpyroximate	0	9143	11144	10976	0	9599.762	PPB	60%-120%
Fipronil	0	9757	12039	11299	0	9942.643	PPB	60%-120%
Flonicamid	0	9313	10443	10488	0	9810	PPB	60%-120%
Fludioxonil	0	9542	11256	11369	0	10013.74	PPB	50%-150%
Hexythiazox	0	9514	11132	11023	0	9718.833	PPB	60%-120%

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Batch#: ; Batch Size: 21610.4 g  
Sample Received: 11/28/2023; Report Created: 12/01/2023  
Harvest/Production Date: 10/02/2023  
Sampling: Random; Environment: Room Temp

## Blue Orchid

Plant, Flower - Cured  
Harvest Process Lot: ; METRC Batch: 1A401050002D7BE00001687; METRC Sample: 1A401050002D7BE00001709



## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
1736 LCQQQ3 20231129-1	MRMB11282301F	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	8923	10570	10473	0	9631.119	PPB	60%-120%
Imidacloprid	0	9615	9136	8547	0	9807.976	PPB	60%-120%
Kresoxim-methyl	0	9431	10010	10090	0	9736.476	PPB	60%-120%
Malathion	0	9298	10713	10471	0	9980.905	PPB	60%-120%
Metalaxyl	0	9263	10184	9948	0	9685.929	PPB	60%-120%
Methiocarb	0	9570	10980	11035	0	10182.83	PPB	60%-120%
Methomyl	0	9519	10496	10586	0	9758.095	PPB	60%-120%
Methyl-Parathion	0	9415	11775	11488	0	10093.02	PPB	50%-150%
MGK-264	0	9221	10517	10444	0	9785.167	PPB	50%-150%
Myclobutanil	0	9474	10484	10461	0	9668.31	PPB	60%-120%
Naled	0	8590	10411	10369	0	9482.31	PPB	50%-150%
Oxamyl	0	9406	10369	10309	0	9685.429	PPB	60%-120%
Paclobutrazol	0	9296	10994	10522	0	9775.976	PPB	60%-120%
Permethrin	0	9833	35269	35825	0	9893.262	PPB	50%-150%
Phosmet	0	9502	10834	10872	0	10074.29	PPB	50%-150%
Piperonyl Butoxide	0	9616	5927	5226	0	9707.333	PPB	60%-120%
Prallethrin	0	9272	8886	8944	0	9042.381	PPB	60%-120%
Propiconazole	0	9017	10008	9822	0	9533.643	PPB	60%-120%
Propoxur	0	9626	10998	10949	0	9899.595	PPB	60%-120%
Pyrethrins (Pyrethrin I)	0	5814	6116	6017	0	6310.786	PPB	60%-120%
Pyridaben	0	9543	10843	10617	0	9620.095	PPB	50%-150%
Spinosad (A&D)	0	7817	9399	9157	0	8963.286	PPB	50%-150%
Spiromesifen	0	8957	11003	10711	0	9740.214	PPB	60%-120%
Spirotetramat	0	9340	10893	10836	0	9621.357	PPB	60%-120%
Spiroxamine	0	8091	8811	8563	0	8817.595	PPB	60%-120%
Tebuconazole	0	9115	10028	9703	0	9746.071	PPB	60%-120%
Thiacloprid	0	9689	10791	10855	0	9754.024	PPB	60%-120%
Thiamethoxam	0	9528	9919	9774	0	9621.357	PPB	60%-120%
Trifloxystrobin	0	9550	11279	11167	0	9741.071	PPB	60%-120%

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