

Blue Orchid

East Fork Cultivars
 330-1064324IHH
 9953 Takilma Rd
 Cave Junction, OR 97523
 503-810-7120

Harvest/Process Date: 10/14/2021
 Sample Date: 1/3/2022
 Analysis Date: 1/5/2022
 Report Date: 1/10/2022
 Report ID: LS-220110-12

Client Batch ID:
 Metrc Batch ID:
 Metrc Sample ID:

Sample Type: Usable Hemp
 Sample Plan:

Sample Procedure:
 160721_LAB-SOP_SampleCollection-v010

Potency

Potency Analysis Date: 1/7/2022
 Potency Batch ID: CAN_010722A
 Potency Method: JAOAC 2015.1

Moisture Content: 8.98%
 Water Activity: 0.494 a_w
 Water Activity Method: AOAC 978.18



Samples: RDC-ZSP-DFP



Analyte	Description	LOQ	RPD	Min.	Max.	Conc.	Unit: %
Δ9THC	Delta-9 Tetrahydrocannabinol	0.0010	-	-	-	0.117	
THCA	Tetrahydrocannabinolic acid	0.0010	-	-	-	0.494	
CBD	Cannabidiol	0.0010	-	-	-	0.804	
CBDA	Cannabidiolic acid	0.0010	-	-	-	14.3	
Δ8THC	Delta-8 Tetrahydrocannabinol*	0.0010	-	-	-	ND	
THCV	Tetrahydrocannabivarin*	0.0010	-	-	-	ND	
CBG	Cannabigerol*	0.0010	-	-	-	0.0699	
CBGA	Cannabigerolic acid*	0.0010	-	-	-	0.720	
CBC	Cannabichromene*	0.0010	-	-	-	0.0902	
CBCA	Cannabichromenic acid*	0.0010	-	-	-	ND	
CBN	Cannabinol*	0.0010	-	-	-	<LOQ	
Total THC	Δ9THC + (THCA × 0.877)					0.551	
Total CBD	CBD + (CBDA × 0.877)					13.4	
Total						16.6	

Compliance

Pesticides	Within limits	Analysis Date: 1/8/2022	Pass <input checked="" type="checkbox"/>
Moisture Content	Within limits	Analysis Date: 1/6/2022	Pass <input checked="" type="checkbox"/>
Water Activity	Within limits	Analysis Date: 1/6/2022	Pass <input checked="" type="checkbox"/>

Aaron Troyer
 Chief Science Officer

This data cannot be used for OLCC or OHA compliance for usable marijuana or marijuana products and is provided for Research and Development purposes only.



LS - 220110 - 12

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Potency Quality Control Data

Potency QC Analysis Date: 1/7/2022
 Potency QC Batch ID: CAN_010722A

Method: JAOAC 2015.1
 Unit: µg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Δ9THC	ND	0.0010	22.3	21.0	106	80 - 120	
THCA	ND	0.0010	21.6	21.4	101	80 - 120	
CBD	ND	0.0010	23.7	23.0	103	80 - 120	
CBDA	ND	0.0010	18.6	19.5	95.2	80 - 120	

POTENCY - LIMIT OF DETECTION
 Verified: 060221
 Method: 160819_LAB-SOP_MethodValidation-CannabinoidPotency-v002.docx

Matrix	Analyte	LOD (ppm)	LOD (mg/g)
EXTRACT	Δ9THC	2.8	0.0028
	THCA	0.56	0.00056
	CBD	2.22	0.00222
	CBDA	0.52	0.00052
FLOWER	Δ9THC	1.88	0.00188
	THCA	5.32	0.00532
	CBD	1.31	0.00131
	CBDA	0.78	0.00078

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Terpene Analysis Date: 1/5/2022
 Terpene Batch ID: TRP_010522A

Method: JAOAC 2015.1
 Unit: %

Analyte	Avg.	Notes	Analyte	Avg.	Notes
α-Pinene	0.631%		Isopulegol	ND	
β-Myrcene	0.544%		Nerol	ND	
Humulene	0.286%		Pulegone	ND	
β-Caryophyllene	0.243%		Sabinene	ND	
β-Pinene	0.165%		Selinadiene	ND	
Guaiol	0.164%		Valencene	ND	
β-Ocimene	0.109%		cis-Nerolidol	ND	
α-Bisabolol	0.0668%		trans-Nerolidol	ND	
Linalool	0.0339%		Δ3-Carene	ND	
Caryophyllene Oxide	0.0339%		α-Cedrene	ND	
Terpinolene	0.0209%		α-Terpineol	ND	
Camphene	0.0182%		β-Farnesene 1	ND	
Limonene	0.0165%		β-Farnesene 2	ND	
α-Ocimene	0.0108%		γ-Terpineol	ND	
Borneol	0.00836%		Total	2.37%	
α-Phellandrene	0.00432%				
Camphore	0.00330%				
α-Terpinene	0.00316%				
Sabinene Hydrate	0.00224%				
γ-Terpinene	0.00194%				
Eucalyptol	0.00172%				
Fenchone	0.000486%				
Azulene	ND				
Cedrol	ND				
Cymene	ND				
Fenchol	ND				
Geraniol	ND				
Geranyl Acetate	ND				
Isoborneol	ND				

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Pesticides Sample Data

Pesticides Analysis Date: 1/8/2022
 Pesticides Batch IDs: PST_010722B_2,
 PST_010722A_2

Unit: µg/g (ppm) Pass 
 Method: AOAC 2007.01 & EN 15662

Analyte	RDC-ZSP-DFP	Limits	LOQ	Notes	Status	Analyte	RDC-ZSP-DFP	Limits	LOQ	Notes	Status
Abamectin	ND	0.5	0.4		Pass	Metalaxyl	ND	0.2	0.2		Pass
Acephate	ND	0.4	0.2		Pass	Methiocarb	ND	0.2	0.2		Pass
Acequinocyl	ND	2.0	0.2		Pass	Methomyl	ND	0.4	0.2		Pass
Acetamiprid	ND	0.2	0.2		Pass	Methyl Parathion	ND	0.2	0.2		Pass
Aldicarb	ND	0.4	0.2		Pass	MGK-264	ND	0.2	0.2		Pass
Azoxystrobin	ND	0.2	0.2		Pass	Myclobutanil	ND	0.2	0.2		Pass
Bifenazate	ND	0.2	0.2		Pass	Naled	ND	0.5	0.4		Pass
Bifenthrin	ND	0.2	0.2		Pass	Oxamyl	ND	1.0	0.2		Pass
Boscalid	ND	0.4	0.2		Pass	Paclobutrazol	ND	0.4	0.2		Pass
Carbaryl	ND	0.2	0.2		Pass	Permethrins	ND	0.2	0.2		Pass
Carbofuran	ND	0.2	0.2		Pass	Phosmet	ND	0.2	0.2		Pass
Chlorantraniliprole	ND	0.2	0.2		Pass	Piperonyl Butoxide	ND	2.0	0.2		Pass
Chlorfenapyr	ND	1.0	1.0		Pass	Prallethrin	ND	0.2	0.2		Pass
Chlorpyrifos	ND	0.2	0.2		Pass	Propiconazole	<LOQ	0.4	0.2		Pass
Clofentezine	ND	0.2	0.2		Pass	Propoxur	ND	0.2	0.2		Pass
Cyfluthrin	ND	1.0	1.0		Pass	Pyrethrins	ND	1.0	1.0		Pass
Cypermethrin	ND	1.0	1.0		Pass	Pyridaben	ND	0.2	0.2		Pass
Daminozide	ND	1.0	0.4		Pass	Spinosad	ND	0.2	0.2		Pass
Diazinon	ND	0.2	0.2		Pass	Spiromesifen	ND	0.2	0.2		Pass
Dichlorvos (DDVP)	ND	1.0	0.2		Pass	Spirotetramat	ND	0.2	0.2		Pass
Dimethoate	ND	0.2	0.2		Pass	Spiroxamine	ND	0.4	0.2		Pass
Ethoprophos	ND	0.2	0.2		Pass	Tebuconazole	ND	0.4	0.2		Pass
Etofenprox	ND	0.4	0.2		Pass	Thiacloprid	ND	0.2	0.2		Pass
Etoxazole	ND	0.2	0.2		Pass	Thiamethoxam	ND	0.2	0.2		Pass
Fenoxycarb	ND	0.2	0.2		Pass	Trifloxystrobin	ND	0.2	0.2		Pass
Fenpyroximate	ND	0.4	0.2		Pass						
Fipronil	ND	0.4	0.2		Pass						
Fonicamid	ND	1.0	0.2		Pass						
Fludioxonil	ND	0.4	0.4		Pass						
Hexythiazox	ND	1.0	0.2		Pass						
Imazalil	ND	0.2	0.2		Pass						
Imidacloprid	ND	0.4	0.2		Pass						
Kresoxim-methyl	ND	0.4	0.4		Pass						
Malathion	ND	0.2	0.2		Pass						

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 **Pesticides**
 Quality Control Data

Pesticides QC Analysis Date: 1/8/2022
Pesticides Batch ID: PST_010722A_2
Unit: µg/g (ppm)
Method: AOAC 2007.01 & EN 15662

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Methyl Parathion	ND	0.002	0.0499	0.0500	99.8	50 - 150	

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Pesticides Quality Control Data

Pesticides QC Analysis Date: 1/8/2022
 Pesticides Batch ID: PST_010722B_2

Unit: µg/g (ppm)
 Method: AOAC 2007.01 & EN 15662

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes	Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Abamectin	ND	0.002	0.0539	0.0500	108	50 - 150		Metalaxyl	ND	0.002	0.0573	0.0500	115	50 - 150	
Acephate	ND	0.002	0.0339	0.0500	67.7	50 - 150		Methiocarb	ND	0.002	0.0576	0.0500	115	50 - 150	
Acequinocyl	ND	0.002	0.0502	0.0500	100	50 - 150		Methomyl	ND	0.002	0.0535	0.0500	107	50 - 150	
Acetamiprid	ND	0.002	0.0519	0.0500	104	50 - 150		MGK-264	ND	0.002	0.0529	0.0500	106	50 - 150	
Aldicarb	ND	0.002	0.0574	0.0500	115	50 - 150		Myclobutanil	ND	0.002	0.0676	0.0500	135	50 - 150	
Azoxystrobin	ND	0.002	0.0371	0.0500	74.2	50 - 150		Naled	ND	0.002	0.0567	0.0500	113	50 - 150	
Bifenazate	ND	0.002	0.0697	0.0500	139	50 - 150		Oxamyl	ND	0.002	0.0524	0.0500	105	50 - 150	
Bifenthrin	ND	0.002	0.0598	0.0500	120	50 - 150		Paclobutrazol	ND	0.002	0.0513	0.0500	103	50 - 150	
Boscalid	ND	0.002	0.0584	0.0500	117	50 - 150		Permethrins	ND	0.002	0.0486	0.0500	97.1	50 - 150	
Carbaryl	ND	0.002	0.0478	0.0500	95.6	50 - 150		Phosmet	ND	0.002	0.0612	0.0500	122	50 - 150	
Carbofuran	ND	0.002	0.0595	0.0500	119	50 - 150		Piperonyl Butoxide	ND	0.002	0.0414	0.0500	82.8	50 - 150	
Chlorantraniliprole	ND	0.002	0.0585	0.0500	117	50 - 150		Prallethrin	ND	0.002	0.0521	0.0500	104	50 - 150	
Chlorfenapyr	ND	0.002	0.0554	0.0500	111	50 - 150		Propiconazole	ND	0.002	0.0546	0.0500	109	50 - 150	
Chlorpyrifos	ND	0.002	0.0569	0.0500	114	50 - 150		Propoxur	ND	0.002	0.0567	0.0500	113	50 - 150	
Clofentezine	ND	0.002	0.0648	0.0500	130	50 - 150		Pyrethrins	ND	0.002	0.0473	0.0500	94.7	50 - 150	
Cyfluthrin	ND	0.002	0.0542	0.0500	108	50 - 150		Pyridaben	ND	0.002	0.0394	0.0500	78.9	50 - 150	
Cypermethrin	ND	0.002	0.0495	0.0500	98.9	50 - 150		Spinosad	ND	0.002	0.0458	0.0500	91.6	50 - 150	
Daminozide	ND	0.002	0.0452	0.0500	90.3	50 - 150		Spiromesifen	ND	0.002	0.0542	0.0500	108	50 - 150	
Diazinon	ND	0.002	0.0651	0.0500	130	50 - 150		Spirotetramat	ND	0.002	0.0313	0.0500	62.6	50 - 150	
Dichlorvos (DDVP)	ND	0.002	0.0432	0.0500	86.4	50 - 150		Spiroxamine	ND	0.002	0.0494	0.0500	98.8	50 - 150	
Dimethoate	ND	0.002	0.0539	0.0500	108	50 - 150		Tebuconazole	ND	0.002	0.0568	0.0500	114	50 - 150	
Ethoprophos	ND	0.002	0.0574	0.0500	115	50 - 150		Thiacloprid	ND	0.002	0.0542	0.0500	108	50 - 150	
Etofenprox	ND	0.002	0.0443	0.0500	88.6	50 - 150		Thiamethoxam	ND	0.002	0.0545	0.0500	109	50 - 150	
Etoazole	ND	0.002	0.0588	0.0500	118	50 - 150		Trifloxystrobin	ND	0.002	0.0542	0.0500	108	50 - 150	
Fenoxycarb	ND	0.002	0.0619	0.0500	124	50 - 150									
Fenpyroximate	ND	0.002	0.0564	0.0500	113	50 - 150									
Fipronil	ND	0.002	0.0497	0.0500	99.3	50 - 150									
Fonicamid	ND	0.002	0.0494	0.0500	98.8	50 - 150									
Fludioxonil	ND	0.002	0.0589	0.0500	118	50 - 150									
Hexythiazox	ND	0.002	0.0582	0.0500	116	50 - 150									
Imazalil	ND	0.002	0.0549	0.0500	110	50 - 150									
Imidacloprid	ND	0.002	0.0524	0.0500	105	50 - 150									
Kresoxim-methyl	ND	0.002	0.0521	0.0500	104	50 - 150									
Malathion	ND	0.002	0.0546	0.0500	109	50 - 150									

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Qualifier Flag Descriptions

J	Reported result is an estimate - the value is less than the minimum calibration level but greater than the estimated detection limit (EDL)
U	The analyte was not detected in the sample at the estimated detection limit (EDL)
E	Exceeds calibration range
D	Dilution data - result was obtained from the analysis of a dilution
B	Analyte found in sample and associated blank
C	Co-eluting compound
R	Relative Percent Difference (RPD) outside control limits
NR	Analyte not reported because of problems in sample preparation or analysis
ND	Non-Detect
X	Results from reinjection/repeat/re-column data
EMC	Estimated maximum possible concentration - indicates that a peak is detected but did not meet the method required criteria
M	Manual integration
PS	Peaks split
HB	Control acceptance criteria are exceeded high and the associated sample is below the detection limit
LB	Control acceptance criteria are exceeded low and the associated sample exceeds the regulatory limit
ME	Marginal Exceedance
LR	Low Recovery Analyte
LOQ	Limit of Quantitation