



12423 NE Whitaker Way  
 Portland, OR 97230  
 503-254-1794



**Report Number:** 20-013405/D05.R00  
**Report Date:** 12/14/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/07/20 11:16

**Customer:** Owls  
**Product identity:** OWLS Delta 8 Northern Lights Blunt  
**Client/Metric ID:** .  
**Laboratory ID:** 20-013405-0003      **Sample Date:** 12/02/20

### Summary

#### Potency:

Analyte	Result (%)		
Δ8-THC†	10.9		
CBD-A	4.49		
CBG-A†	4.15		
CBD	1.18		
CBC-A†	0.511		
CBC	0.202		
THC-A	0.147		
CBG†	0.0912		
			CBD-Total 5.12%
			THC-Total 0.129%
			(Reported in percent of total sample)

#### Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
β-Caryophyllene†	0.210	33.65%	α-Bisabolol†	0.135	21.63%
(R)-(+)-Limonene†	0.0591	9.47%	Terpinolene†	0.0438	7.02%
Humulene†	0.0411	6.59%	(-)-Guaiol†	0.0402	6.44%
(-)-β-Pinene†	0.0264	4.23%	(-)-caryophyllene oxide†	0.0240	3.85%
Linalool†	0.0232	3.72%	α-pinene†	0.0216	3.46%
<b>Total Terpenes†</b>	<b>0.624</b>	<b>100.00%</b>			



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**Customer:** Owls

**Product identity:** OWLS Delta 8 Northern Lights Blunt  
**Client/Metric ID:** .  
**Sample Date:** 12/02/20  
**Laboratory ID:** 20-013405-0003  
**Evidence of Cooling:** No  
**Temp:** 20 °C

### Sample Results

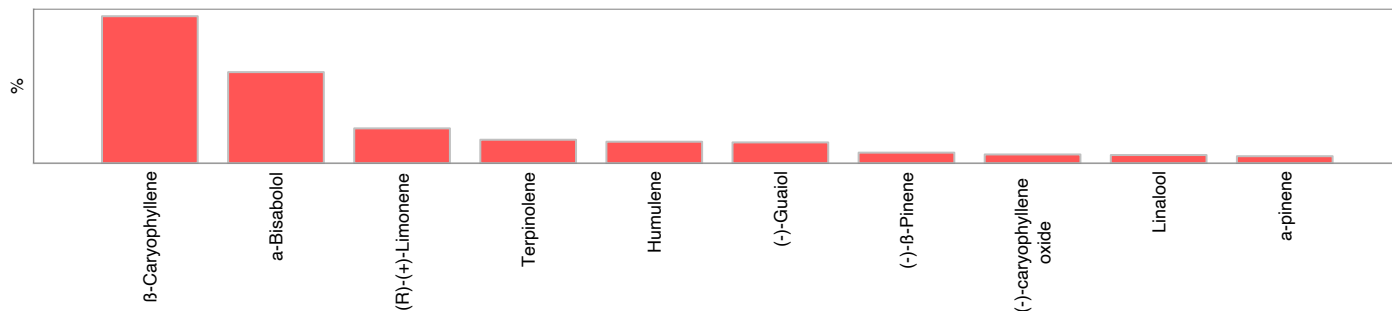
Potency **Method J AOAC 2015 V98-6 (mod) Batch: 2010313 Analyze: 12/10/20 12:48:00 A**

Analyte	As Received	Dry weight	LOQ	Notes
CBC	0.202		0.0297	
CBC-A†	0.511		0.0297	
CBC-Total†	0.650		0.0558	
CBD	1.18		0.0297	
CBD-A	4.49		0.0297	
CBD-Total	5.12		0.0558	
CBDV†	< LOQ		0.0297	
CBDV-A†	< LOQ		0.0297	
CBDV-Total†	< LOQ		0.0555	
CBG†	0.0912		0.0297	
CBG-A†	4.15		0.0297	
CBG-Total	3.73		0.0555	
CBL†	< LOQ		0.0297	
CBN	< LOQ		0.0297	
Δ8-THC†	10.9		0.297	
Δ9-THC	< LOQ		0.0297	
THC-A	0.147		0.0297	
THC-Total	0.129		0.0558	
THCV†	< LOQ		0.0297	
THCV-A†	< LOQ		0.0297	
THCV-Total†	< LOQ		0.0555	
<b>Total Cannabinoids†</b>	<b>21.7</b>			





Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2010263	Analyze 12/10/20 10:16 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
β-Caryophyllene†	0.210	0.020	33.65%		a-Bisabolol†	0.135	0.020	21.63%	
(R)-(+)-Limonene†	0.0591	0.020	9.47%		Terpinolene†	0.0438	0.020	7.02%	
Humulene†	0.0411	0.020	6.59%		(-)-Guaiol†	0.0402	0.020	6.44%	
(-)-β-Pinene†	0.0264	0.020	4.23%		(-)-caryophyllene oxide†	0.0240	0.020	3.85%	
Linalool†	0.0232	0.020	3.72%		a-pinene†	0.0216	0.020	3.46%	
(-)-α-Terpineol†	< LOQ	0.020	0.00%		(-)-Isopulegol†	< LOQ	0.020	0.00%	
(+)-Borneol†	< LOQ	0.020	0.00%		(+)-Cedrol†	< LOQ	0.020	0.00%	
(+)-fenchol†	< LOQ	0.020	0.00%		(+)-Pulegone†	< LOQ	0.020	0.00%	
(±)-Camphor†	< LOQ	0.020	0.00%		(±)-cis-Nerolidol†	< LOQ	0.020	0.00%	
(±)-fenchone†	< LOQ	0.020	0.00%		(±)-trans-Nerolidol†	< LOQ	0.020	0.00%	
a-cedrene†	< LOQ	0.020	0.00%		a-phellandrene†	< LOQ	0.020	0.00%	
a-Terpinene†	< LOQ	0.020	0.00%		Camphene†	< LOQ	0.020	0.00%	
cis-β-Ocimene†	< LOQ	0.006	0.00%		d-3-Carene†	< LOQ	0.020	0.00%	
Eucalyptol†	< LOQ	0.020	0.00%		farnesene†	< LOQ	0.020	0.00%	
gamma-Terpinene†	< LOQ	0.020	0.00%		Geraniol†	< LOQ	0.020	0.00%	
Geranyl acetate†	< LOQ	0.020	0.00%		Isoborneol†	< LOQ	0.020	0.00%	
Menthol†	< LOQ	0.020	0.00%		nerol†	< LOQ	0.020	0.00%	
p-Cymene†	< LOQ	0.020	0.00%		Sabinene†	< LOQ	0.020	0.00%	
Sabinene hydrate†	< LOQ	0.020	0.00%		β-Myrcene†	< LOQ	0.020	0.00%	
trans-β-Ocimene†	< LOQ	0.013	0.00%		valencene†	< LOQ	0.020	0.00%	
<b>Total Terpenes</b>	<b>0.624</b>								





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**Abbreviations**

**Limits:** Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

**Units of Measure**

% = Percentage of sample

% wt =  $\mu\text{g/g}$  divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager



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**Terpenes Quality Control Results**

Method Reference: EPA 5035				Batch ID: 2010263					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		617	500	µg/g	123%	70 - 130	
Camphene	<LOQ	< 200		590	500	µg/g	118%	70 - 130	
Sabinene	<LOQ	< 200		586	500	µg/g	117%	70 - 130	
b-Pinene	<LOQ	< 200		573	500	µg/g	115%	70 - 130	
b-Myrcene	<LOQ	< 200		489	500	µg/g	98%	70 - 130	
a-phellandrene	<LOQ	< 200		542	500	µg/g	108%	70 - 130	
d-3-Carene	<LOQ	< 200		642	500	µg/g	128%	70 - 130	
a-Terpinene	<LOQ	< 200		515	500	µg/g	103%	70 - 130	
p-Cymene	<LOQ	< 200		525	500	µg/g	105%	70 - 130	
D-Limonene	<LOQ	< 200		581	500	µg/g	116%	70 - 130	
Eucalyptol	<LOQ	< 200		624	500	µg/g	125%	70 - 130	
b-cis-Ocimene	<LOQ	< 66.7		130	167	µg/g	78%	70 - 130	
b-trans-Ocimene	<LOQ	< 133		313	333	µg/g	94%	70 - 130	
g-Terpinene	<LOQ	< 200		529	500	µg/g	106%	70 - 130	
Sabinene_Hydrate	<LOQ	< 200		576	500	µg/g	115%	70 - 130	
Terpinolene	<LOQ	< 200		527	500	µg/g	105%	70 - 130	
D-Fenchone	<LOQ	< 200		643	500	µg/g	129%	70 - 130	
Linalool	<LOQ	< 200		536	500	µg/g	107%	70 - 130	
Fenchol	<LOQ	< 200		631	500	µg/g	126%	70 - 130	
Camphor	<LOQ	< 200		602	500	µg/g	120%	70 - 130	
Isopulego	<LOQ	< 200		595	500	µg/g	119%	70 - 130	
Isoborneol	<LOQ	< 200		633	500	µg/g	127%	70 - 130	
Borneol	<LOQ	< 200		624	500	µg/g	125%	70 - 130	
DL-Menthol	<LOQ	< 200		612	500	µg/g	122%	70 - 130	
Terpineol	<LOQ	< 200		539	500	µg/g	108%	70 - 130	
Nerol	<LOQ	< 200		442	500	µg/g	88%	70 - 130	
Pulegone	<LOQ	< 200		574	500	µg/g	115%	70 - 130	
Geraniol	<LOQ	< 200		526	500	µg/g	105%	70 - 130	
Geranyl_Acetate	<LOQ	< 200		530	500	µg/g	106%	70 - 130	
a-Cedrene	<LOQ	< 200		642	500	µg/g	128%	70 - 130	
b-Caryophyllene	<LOQ	< 200		615	500	µg/g	123%	70 - 130	
a-Humulene	<LOQ	< 200		645	500	µg/g	129%	70 - 130	
Valenene	<LOQ	< 200		565	500	µg/g	113%	70 - 130	
cis-Nerolidol	<LOQ	< 200		627	500	µg/g	125%	70 - 130	
a-Farnesene	<LOQ	< 200		526	500	µg/g	105%	70 - 130	
trans-Nerolidol	<LOQ	< 200		576	500	µg/g	115%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		618	500	µg/g	124%	70 - 130	
Guaial	<LOQ	< 200		621	500	µg/g	124%	70 - 130	
Cedrol	<LOQ	< 200		622	500	µg/g	124%	70 - 130	
a-Bisabolol	<LOQ	< 200		604	500	µg/g	121%	70 - 130	

Definitions

LOQ	Limit of Quantitation
LCS	Laboratory Control Sample
% REC	Percent Recovery



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**Terpenes Quality Control Results**

Method Reference: EPA 5035		Batch ID: 2010263					
Sample/Sample Duplicate		Sample ID: 20-013405-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	261	236	200	µg/g	10%	< 20	
Camphene	<LOQ	<LOQ	200	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	200	µg/g	0%	< 20	
b-Pinene	299	266	200	µg/g	12%	< 20	
b-Myrcene	203	<LOQ	200	µg/g	0%	< 20	
a-phellandrene	<LOQ	<LOQ	200	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	200	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	200	µg/g	0%	< 20	
D-Limonene	453	387	200	µg/g	16%	< 20	
Eucalyptol	<LOQ	<LOQ	200	µg/g	0%	< 20	
b-cis-Ocimene	<LOQ	<LOQ	66.7	µg/g	0%	< 20	
b-trans-Ocimene	<LOQ	<LOQ	133	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	200	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	200	µg/g	0%	< 20	
Terpinolene	367	312	200	µg/g	16%	< 20	
D-Fenchone	<LOQ	<LOQ	200	µg/g	0%	< 20	
Linalool	317	315	200	µg/g	1%	< 20	
Fenchol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	200	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	200	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	200	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Terpineol	203	<LOQ	200	µg/g	0%	< 20	R2
Nerol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	200	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	200	µg/g	0%	< 20	
b-Caryophyllene	2490	2350	200	µg/g	6%	< 20	
a-Humulene	437	452	200	µg/g	3%	< 20	
Valenene	<LOQ	<LOQ	200	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	200	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Caryophyllene_Oxide	328	328	200	µg/g	0%	< 20	
Guaiol	473	483	200	µg/g	2%	< 20	
Cedrol	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-Bisabolol	1720	1650	200	µg/g	4%	< 20	

Definitions

RPD Relative Percent Difference  
R2 Sample replicates RPD non-calculable, as only one replicate is within analytical range.



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Revision #: 0.00 Control : CFL-D06  
Revision Date: 05/31/2019 Effective Date: 05/31/2019

**Laboratory Quality Control Results**

**J AOAC 2015 V98-6** **Batch ID: 2010313**

**Laboratory Control Sample**

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.0398	0.04	%	99.4	85.0 - 115	Acceptable	
CBDV	0.0396	0.04	%	99.1	85.0 - 115	Acceptable	
CBD-A	0.0416	0.04	%	104	85.0 - 115	Acceptable	
CBG-A	0.0396	0.04	%	99.0	85.0 - 115	Acceptable	
CBG	0.0396	0.04	%	99.0	85.0 - 115	Acceptable	
CBD	0.0411	0.04	%	103	85.0 - 115	Acceptable	
THCV	0.0401	0.04	%	100	85.0 - 115	Acceptable	
THCVA	0.0391	0.04	%	97.9	85.0 - 115	Acceptable	
CBN	0.0431	0.04	%	108	85.0 - 115	Acceptable	
THC	0.0443	0.04	%	111	85.0 - 115	Acceptable	
D8THC	0.0408	0.04	%	102	85.0 - 115	Acceptable	
CBL	0.0426	0.04	%	106	85.0 - 115	Acceptable	
CBC	0.0402	0.04	%	100	85.0 - 115	Acceptable	
THCA	0.0418	0.04	%	105	85.0 - 115	Acceptable	
CBCA	0.0402	0.04	%	100	85.0 - 115	Acceptable	

**Method Blank**

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	<LOQ	0.03	%	< 0.03	Acceptable	
CBDV	<LOQ	0.03	%	< 0.03	Acceptable	
CBD-A	<LOQ	0.03	%	< 0.03	Acceptable	
CBG-A	<LOQ	0.03	%	< 0.03	Acceptable	
CBG	<LOQ	0.03	%	< 0.03	Acceptable	
CBD	<LOQ	0.03	%	< 0.03	Acceptable	
THCV	<LOQ	0.03	%	< 0.03	Acceptable	
THCVA	<LOQ	0.03	%	< 0.03	Acceptable	
CBN	<LOQ	0.03	%	< 0.03	Acceptable	
THC	<LOQ	0.03	%	< 0.03	Acceptable	
D8THC	<LOQ	0.03	%	< 0.03	Acceptable	
CBL	<LOQ	0.03	%	< 0.03	Acceptable	
CBC	<LOQ	0.03	%	< 0.03	Acceptable	
THCA	<LOQ	0.03	%	< 0.03	Acceptable	
CBCA	<LOQ	0.03	%	< 0.03	Acceptable	

**Abbreviations**

ND - None Detected at or above MRL  
RPD - Relative Percent Difference  
LOQ - Limit of Quantitation

**Units of Measure:**

% - Percent



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Revision #: 0.00 Control : CFL-D06  
Revision Date: 05/31/2019 Effective Date: 05/31/2019

**Laboratory Quality Control Results**

J AOAC 2015 V98-6		Batch ID: 2010313							
Sample Duplicate		Sample ID: 20-013385-0001							
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes	
CBDV-A	0.0432	0.0436	0.03	%	0.796	< 20	Acceptable		
CBDV	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable		
CBD-A	10.6	10.8	0.03	%	1.84	< 20	Acceptable		
CBG-A	0.171	0.175	0.03	%	2.44	< 20	Acceptable		
CBG	0.0838	0.0842	0.03	%	0.432	< 20	Acceptable		
CBD	2.28	2.28	0.03	%	0.0556	< 20	Acceptable		
THCV	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable		
THCVA	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable		
CBN	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable		
THC	0.168	0.172	0.03	%	2.48	< 20	Acceptable		
D8THC	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable		
CBL	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable		
CBC	0.461	0.462	0.03	%	0.402	< 20	Acceptable		
THCA	0.192	0.192	0.03	%	0.258	< 20	Acceptable		
CBCA	1.27	1.28	0.03	%	0.656	< 20	Acceptable		

**Abbreviations**

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- NA - Calculation Not Applicable given non-numerical results

**Units of Measure:**

% - Percent





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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.