



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



**Report Number:** 20-013405/D02.R00  
**Report Date:** 12/14/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/07/20 11:16

**Customer:** Owls  
**Product identity:** OWLS Delta 8 Trainwreck Blunt  
**Client/Metric ID:** .  
**Laboratory ID:** 20-013405-0002

**Sample Date:** 12/02/20

### Summary

#### Potency:

Analyte	Result (%)		
Δ8-THC†	8.21		CBD-Total 4.60%
CBD-A	4.01		THC-Total 0.105%
CBG-A†	3.80		(Reported in percent of total sample)
CBD	1.08		
CBC-A†	0.474		
CBC	0.183		
THC-A	0.120		
CBG†	0.0881		

#### Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
β-Caryophyllene†	0.127	31.51%	α-Bisabolol†	0.119	29.53%
Terpinolene†	0.0393	9.75%	(-)-Guaiaol†	0.0375	9.31%
Humulene†	0.0311	7.72%	(R)-(+)-Limonene†	0.0294	7.30%
(-)-caryophyllene oxide†	0.0201	4.99%	<b>Total Terpenes†</b>	<b>0.403</b>	<b>100.00%</b>



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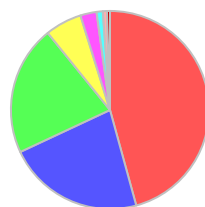
**Customer:** Owls

**Product identity:** OWLS Delta 8 Trainwreck Blunt  
**Client/Metric ID:** .  
**Sample Date:** 12/02/20  
**Laboratory ID:** 20-013405-0002  
**Evidence of Cooling:** No  
**Temp:** 20 °C

### Sample Results

Potency **Method J AOAC 2015 V98-6 (mod)** **Batch: 2010313** **Analyze: 12/10/20 12:37:00 A**

Analyte	As Received	Dry weight	LOQ	Notes
CBC	0.183		0.0293	
CBC-A†	0.474		0.0293	
CBC-Total†	0.599		0.0551	
CBD	1.08		0.0293	
CBD-A	4.01		0.0293	
CBD-Total	4.60		0.0551	
CBDV†	< LOQ		0.0293	
CBDV-A†	< LOQ		0.0293	
CBDV-Total†	< LOQ		0.0547	
CBG†	0.0881		0.0293	
CBG-A†	3.80		0.0293	
CBG-Total	3.42		0.0547	
CBL†	< LOQ		0.0293	
CBN	< LOQ		0.0293	
Δ8-THC†	8.21		0.0293	
Δ9-THC	< LOQ		0.0293	
THC-A	0.120		0.0293	
THC-Total	0.105		0.0551	
THCV†	< LOQ		0.0293	
THCV-A†	< LOQ		0.0293	
THCV-Total†	< LOQ		0.0547	
<b>Total Cannabinoids†</b>	<b>18.0</b>			



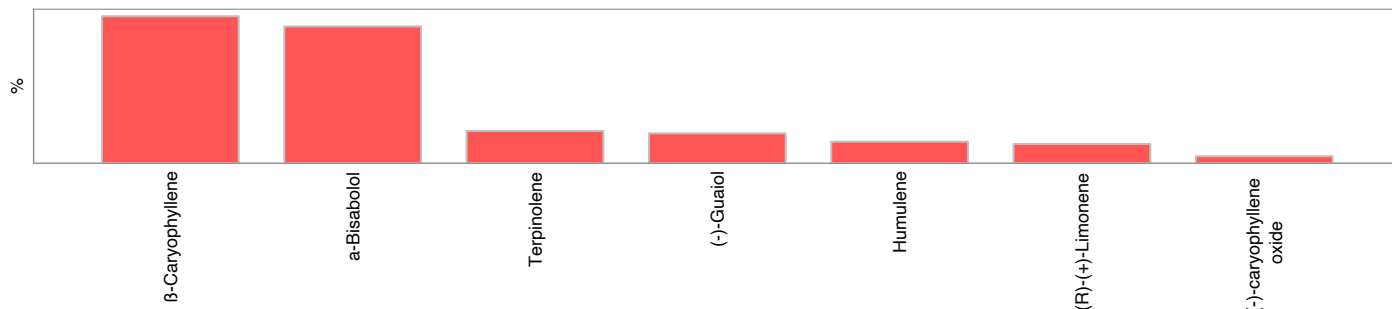
- Δ8-THC
- CBD-A
- CBG-A
- CBD
- CBC-A
- CBC
- THC-A
- CBG

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with: OAR 333-007-0430



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 <sup>†</sup>	0.127	0.020	31.51%		α-Bisabolol <sup>†</sup>	0.119	0.020	29.53%	
Terpinolene <sup>†</sup>	0.0393	0.020	9.75%		(-)-Guaiol <sup>†</sup>	0.0375	0.020	9.31%	
Humulene <sup>†</sup>	0.0311	0.020	7.72%		(R)-(+)-Limonene <sup>†</sup>	0.0294	0.020	7.30%	
(-)-caryophyllene oxide <sup>†</sup>	0.0201	0.020	4.99%		(-)-α-Terpineol <sup>†</sup>	< LOQ	0.020	0.00%	
(-)-Isopulegol <sup>†</sup>	< LOQ	0.020	0.00%		(-)-β-Pinene <sup>†</sup>	< LOQ	0.020	0.00%	
(+)-Borneol <sup>†</sup>	< LOQ	0.020	0.00%		(+)-Cedrol <sup>†</sup>	< LOQ	0.020	0.00%	
(+)-fenchol <sup>†</sup>	< LOQ	0.020	0.00%		(+)-Pulegone <sup>†</sup>	< LOQ	0.020	0.00%	
(±)-Camphor <sup>†</sup>	< LOQ	0.020	0.00%		(±)-cis-Nerolidol <sup>†</sup>	< LOQ	0.020	0.00%	
(±)-fenchone <sup>†</sup>	< LOQ	0.020	0.00%		(±)-trans-Nerolidol <sup>†</sup>	< LOQ	0.020	0.00%	
α-cedrene <sup>†</sup>	< LOQ	0.020	0.00%		α-phellandrene <sup>†</sup>	< LOQ	0.020	0.00%	
α-pinene <sup>†</sup>	< LOQ	0.020	0.00%		α-Terpinene <sup>†</sup>	< LOQ	0.020	0.00%	
Camphene <sup>†</sup>	< LOQ	0.020	0.00%		cis-β-Ocimene <sup>†</sup>	< LOQ	0.006	0.00%	
d-3-Carene <sup>†</sup>	< LOQ	0.020	0.00%		Eucalyptol <sup>†</sup>	< LOQ	0.020	0.00%	
farnesene <sup>†</sup>	< LOQ	0.020	0.00%		γ-Terpinene <sup>†</sup>	< LOQ	0.020	0.00%	
Geraniol <sup>†</sup>	< LOQ	0.020	0.00%		Geranyl acetate <sup>†</sup>	< LOQ	0.020	0.00%	
Isoborneol <sup>†</sup>	< LOQ	0.020	0.00%		Linalool <sup>†</sup>	< LOQ	0.020	0.00%	
Menthol <sup>†</sup>	< LOQ	0.020	0.00%		nerol <sup>†</sup>	< LOQ	0.020	0.00%	
p-Cymene <sup>†</sup>	< LOQ	0.020	0.00%		Sabinene <sup>†</sup>	< LOQ	0.020	0.00%	
Sabinene hydrate <sup>†</sup>	< LOQ	0.020	0.00%		β-Myrcene <sup>†</sup>	< LOQ	0.020	0.00%	
trans-β-Ocimene <sup>†</sup>	< LOQ	0.013	0.00%		valencene <sup>†</sup>	< LOQ	0.020	0.00%	
<b>Total Terpenes</b>	<b>0.403</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.