



This report cannot be used for OHA or OLCC compliance requirements.

**Customer:** Columbia Bitters Company

**Product identity:** Elderflower Lavender CBD Bitters

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 18-008621-0001

**Relinquished by:** Gabriela Espinoza

**Temp:** 23 °C

**Serving Size #1:** 52.34 g

### Sample Results

Potency per 52.34g		Batch: 1805998					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 52.34g <sup>†</sup>	< LOQ		mg/52.34g	2.62	10/08/18	J AOAC 2015 V98-6	
CBC-A per 52.34g <sup>†</sup>	< LOQ		mg/52.34g	2.62	10/08/18	J AOAC 2015 V98-6	
CBC-Total per 52.34g <sup>†</sup>	< LOQ		mg/52.34g	4.91	10/08/18	J AOAC 2015 V98-6	
CBD per 52.34g	305		mg/52.34g	2.62	10/08/18	J AOAC 2015 V98-6	
CBD-A per 52.34g	< LOQ		mg/52.34g	2.62	10/08/18	J AOAC 2015 V98-6	
CBD-Total per 52.34g	305		mg/52.34g	4.91	10/08/18	J AOAC 2015 V98-6	
CBDV per 52.34g <sup>†</sup>	< LOQ		mg/52.34g	2.62	10/08/18	J AOAC 2015 V98-6	
CBDV-A per 52.34g <sup>†</sup>	< LOQ		mg/52.34g	2.62	10/08/18	J AOAC 2015 V98-6	
CBDV-Total per 52.34g <sup>†</sup>	< LOQ		mg/52.34g	4.88	10/08/18	J AOAC 2015 V98-6	
CBG per 52.34g <sup>†</sup>	< LOQ		mg/52.34g	2.62	10/08/18	J AOAC 2015 V98-6	
CBG-A per 52.34g <sup>†</sup>	< LOQ		mg/52.34g	2.62	10/08/18	J AOAC 2015 V98-6	
CBG-Total per 52.34g <sup>†</sup>	< LOQ		mg/52.34g	4.91	10/08/18	J AOAC 2015 V98-6	
CBL per 52.34g <sup>†</sup>	< LOQ		mg/52.34g	2.62	10/08/18	J AOAC 2015 V98-6	
CBN per 52.34g	< LOQ		mg/52.34g	2.62	10/08/18	J AOAC 2015 V98-6	
D8THC per 52.34g <sup>†</sup>	< LOQ		mg/52.34g	2.62	10/08/18	J AOAC 2015 V98-6	
THC per 52.34g	< LOQ		mg/52.34g	2.62	10/08/18	J AOAC 2015 V98-6	
THC-A per 52.34g	< LOQ		mg/52.34g	2.62	10/08/18	J AOAC 2015 V98-6	
THC-Total per 52.34g	< LOQ		mg/52.34g	4.91	10/08/18	J AOAC 2015 V98-6	
THCV per 52.34g <sup>†</sup>	< LOQ		mg/52.34g	2.62	10/08/18	J AOAC 2015 V98-6	
THCV-A per 52.34g <sup>†</sup>	< LOQ		mg/52.34g	2.62	10/08/18	J AOAC 2015 V98-6	
THCV-Total per 52.34g <sup>†</sup>	< LOQ		mg/52.34g	4.88	10/08/18	J AOAC 2015 V98-6	



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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.

**Units of Measure**

g = Gram

mg/52.34g = Milligram per 52.34g

% = Percentage of sample

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

Approved Signatory

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Derrick Tanner  
General Manager



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**Laboratory Quality Control Results**

**J AOAC 2015 V98-6** **Batch ID: 1805998**

Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDV-A	0.00961	0.01	%	96.1	85	- 115	Acceptable		
CBDV	0.00975	0.01	%	97.5	85	- 115	Acceptable		
CBD-A	0.00945	0.01	%	94.5	85	- 115	Acceptable		
CBG-A	0.00949	0.01	%	94.9	85	- 115	Acceptable		
CBG	0.00935	0.01	%	93.5	85	- 115	Acceptable		
CBD	0.00897	0.01	%	89.7	85	- 115	Acceptable		
THCV	0.00925	0.01	%	92.5	85	- 115	Acceptable		
THCVA	0.00961	0.01	%	96.1	85	- 115	Acceptable		
CBN	0.00922	0.01	%	92.2	85	- 115	Acceptable		
THC	0.00915	0.01	%	91.5	85	- 115	Acceptable		
D8THC	0.00985	0.01	%	98.5	85	- 115	Acceptable		
CBL	0.00959	0.01	%	95.9	85	- 115	Acceptable		
CBC	0.00936	0.01	%	93.6	85	- 115	Acceptable		
THCA	0.00918	0.01	%	91.8	85	- 115	Acceptable		
CBCA	0.00994	0.01	%	99.4	85	- 115	Acceptable		

**Method Blank**

Analyte	Result	LOQ	Units	Limits		Evaluation	Notes	
CBDV-A	ND	0.005	%	< 0.005		Acceptable		
CBDV	ND	0.005	%	< 0.005		Acceptable		
CBD-A	ND	0.005	%	< 0.005		Acceptable		
CBG-A	ND	0.005	%	< 0.005		Acceptable		
CBG	ND	0.005	%	< 0.005		Acceptable		
CBD	ND	0.005	%	< 0.005		Acceptable		
THCV	ND	0.005	%	< 0.005		Acceptable		
THCVA	ND	0.005	%	< 0.005		Acceptable		
CBN	ND	0.005	%	< 0.005		Acceptable		
THC	ND	0.005	%	< 0.005		Acceptable		
D8THC	ND	0.005	%	< 0.005		Acceptable		
CBL	ND	0.005	%	< 0.005		Acceptable		
CBC	ND	0.005	%	< 0.005		Acceptable		
THCA	ND	0.005	%	< 0.005		Acceptable		
CBCA	ND	0.005	%	< 0.005		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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J AOAC 2015 V98-6		Batch ID: 1805998						
Sample Duplicate		Sample ID: 18-008621-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.005	%	0	< 20	Acceptable	
CBDV	ND	ND	0.005	%	0	< 20	Acceptable	
CBD-A	ND	ND	0.005	%	0	< 20	Acceptable	
CBG-A	ND	ND	0.005	%	0	< 20	Acceptable	
CBG	ND	ND	0.005	%	0	< 20	Acceptable	
CBD	0.563	0.582	0.005	%	3.32	< 20	Acceptable	
THCV	ND	ND	0.005	%	0	< 20	Acceptable	
THCVA	ND	ND	0.005	%	0	< 20	Acceptable	
CBN	ND	ND	0.005	%	0	< 20	Acceptable	
THC	ND	ND	0.005	%	0	< 20	Acceptable	
D8THC	ND	ND	0.005	%	0	< 20	Acceptable	
CBL	ND	ND	0.005	%	0	< 20	Acceptable	
CBC	ND	ND	0.005	%	0	< 20	Acceptable	
THCA	ND	ND	0.005	%	0	< 20	Acceptable	
CBCA	ND	ND	0.005	%	0	< 20	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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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	Quantitaion 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.