



**Product identity:** Gummy-25mg  
**Laboratory ID:** 19-012999-0001

**Client/Metric ID:** .  
**Sample Date:**

**Summary**

**Potency:**

Analyte per 8g	Result	Limits	Units	Status	
CBC per 8g†	0.273		mg/8g		CBD-Total per 8g 19.4 mg/8g
CBD per 8g	19.4		mg/8g		THC-Total per 8g < 0.501 mg/8g
					(Reported in milligrams per serving)

**Terpenes:**

*Less than LOQ for all analytes.*

**Microbiology:**

*Less than LOQ for all analytes.*



**Customer:** Nirvana CBD  
**Product identity:** Gummy-25mg  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 19-012999-0001  
**Relinquished by:** Received By Mail  
**Temp:** 22.1 °C  
**Serving Size #1:** 8 g

### Sample Results

Potency per 8g		Batch: 1909769					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 8g†	0.273		mg/8g	0.267	10/28/19	J AOAC 2015 V98-6	
CBC-A per 8g†	< LOQ		mg/8g	0.267	10/28/19	J AOAC 2015 V98-6	
CBC-Total per 8g†	< LOQ		mg/8g	0.501	10/28/19	J AOAC 2015 V98-6	
CBD per 8g	19.4		mg/8g	0.267	10/28/19	J AOAC 2015 V98-6	
CBD-A per 8g	< LOQ		mg/8g	0.267	10/28/19	J AOAC 2015 V98-6	
CBD-Total per 8g	19.4		mg/8g	0.501	10/28/19	J AOAC 2015 V98-6	
CBDV per 8g†	< LOQ		mg/8g	0.267	10/28/19	J AOAC 2015 V98-6	
CBDV-A per 8g†	< LOQ		mg/8g	0.267	10/28/19	J AOAC 2015 V98-6	
CBDV-Total per 8g†	< LOQ		mg/8g	0.498	10/28/19	J AOAC 2015 V98-6	
CBG per 8g†	< LOQ		mg/8g	0.267	10/28/19	J AOAC 2015 V98-6	
CBG-A per 8g†	< LOQ		mg/8g	0.267	10/28/19	J AOAC 2015 V98-6	
CBG-Total per 8g†	< LOQ		mg/8g	0.501	10/28/19	J AOAC 2015 V98-6	
CBL per 8g†	< LOQ		mg/8g	0.267	10/28/19	J AOAC 2015 V98-6	
CBN per 8g	< LOQ		mg/8g	0.267	10/28/19	J AOAC 2015 V98-6	
Δ8-THC per 8g†	< LOQ		mg/8g	0.267	10/28/19	J AOAC 2015 V98-6	
Δ9-THC per 8g	< LOQ		mg/8g	0.267	10/28/19	J AOAC 2015 V98-6	
THC-A per 8g	< LOQ		mg/8g	0.267	10/28/19	J AOAC 2015 V98-6	
THC-Total per 8g	< LOQ		mg/8g	0.501	10/28/19	J AOAC 2015 V98-6	
THCV per 8g†	< LOQ		mg/8g	0.267	10/28/19	J AOAC 2015 V98-6	
THCV-A per 8g†	< LOQ		mg/8g	0.267	10/28/19	J AOAC 2015 V98-6	
THCV-Total per 8g†	< LOQ		mg/8g	0.498	10/28/19	J AOAC 2015 V98-6	

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	1909633	10/26/19	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	1909633	10/26/19	AOAC 2014.05 (RAPID)	X



Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 1909682	Analyze 10/25/19 08:47 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
(-)-a-Terpineol†	< LOQ	0.020	0.00%		(-)-caryophyllene oxide†	< LOQ	0.020	0.00%	
(-)-Guaiol†	< LOQ	0.020	0.00%		(-)-Isopulegol†	< LOQ	0.020	0.00%	
(-)-β-Pinene†	< 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%		(R)-(+)-Limonene†	< LOQ	0.020	0.00%	
a-Bisabolol†	< LOQ	0.020	0.00%		a-cedrene†	< LOQ	0.020	0.00%	
a-phellandrene†	< LOQ	0.020	0.00%		a-pinene†	< 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%		Humulene†	< LOQ	0.020	0.00%	
Isoborneol†	< LOQ	0.020	0.00%		Linalool†	< 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-Caryophyllene†	< LOQ	0.020	0.00%	
β-Myrcene†	< LOQ	0.020	0.00%		Terpinolene†	< LOQ	0.020	0.00%	
trans-β-Ocimene†	< LOQ	0.013	0.00%		valencene†	< LOQ	0.020	0.00%	
<b>Total Terpenes</b>	<b>&lt; LOQ</b>								



These test results are representative of the individual sample selected and submitted by the client.

**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**

cfu/g = Colony forming units per gram

g = Gram

mg/8g = Milligram per 8g

% = Percentage of sample

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

**Glossary of Qualifiers**

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner  
General Manager



12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

**Cannabis Chain of Custody Record**

19-012999

ORELAP ID: OR100028

Company: <b>Nirvana CBD</b>		<b>Analysis Requested</b>										Purchase Order Number:				
Contact: <b>Patrick Mulcahy</b>		Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Project Number:		
Address: 11258 Monarch st unit A Garden Grove CA 92841														Project Name:		
Email: <b>patrick@nirvancbd.com</b>														<input type="checkbox"/> Report Instructions: <input type="checkbox"/> Send to State - METRC <input type="checkbox"/> Email Final Results: <input type="checkbox"/> Fax Final Results <input type="checkbox"/> Cash/Check/CC/Net 30		
Phone: <b>714-343-3409</b> Fax:														Other:		
Processor's License: <b>N/A</b>																
Field ID	Date/Time Collected												Matrix	Weight	Serving size for edibles	Comments/Metric ID
Gummy-25mg			X					X	X					8g	8g	TAMC, TYMC, Sa, Pa, Ec, & Sa

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day) <input type="checkbox"/> Rush (3-4 day) (1.5x Standard) <input type="checkbox"/> Priority Rush (2 day) (2x Standard)	Patrick Mulcahy	8/9/19		Sample received to lab 10/21/19 - see attached paperwork Jennifer 10/24/19			Client Alias: Nirvana CBD Order Number: Proper Container Sample Condition Temperature: 22.1°C Shipped Via: Evidence of cooling: <input checked="" type="checkbox"/> No

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 Pixis 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.



**Columbia Food/Pixis Labs**  
Sample Receipt Form

Revision: 1.00 Document Control: CF015  
Revised: 04/25/2019 Effective: 05/11/2019

Job Number: 19-012999

Search Name: \_\_\_\_\_

Package/Cooler opened on (if different than received date/time) Date: 10-21-19 Time: 15:45

Received By (Initials): JJ

1) Were custody seals on outside of the package/cooler?  
If YES, how many and where? \_\_\_\_\_ YES NO NA

Were signature and date correct? \_\_\_\_\_ YES NO NA

2) Were custody papers included in the package/cooler? YES NO NA

3) Were custody papers properly filled out (ink, sign, date)? YES NO NA

4) Did you sign custody papers in the appropriate place? YES NO NA

5) How was the package/cooler delivered? YES NO NA

UPS FEDEX USPS CLIENT COURIER OTHER: \_\_\_\_\_

Tracking Number (written in or copy of shipping label): 9400 1116 9900 090 5559

6) Was packing material used? YES NO NA

Peanuts Bubble Wrap Foam Paper Other: 46

7) Was sufficient ice used (if appropriate)?  
What kind? YES NO NA

Blue Ice Ice Cooler Packs Dry Ice

8) Were all sample containers sealed in separate plastic bags? YES NO NA

9) Did all sample containers arrive in good condition? YES NO NA

10) Were all sample container labels complete? YES NO NA

11) Did all sample container labels and tags agree with the coc? YES NO NA

12) Were correct sample containers used for the tests indicated? YES NO NA

13) Were VOA vials checked for absence of air bubbles (note if found)? YES NO NA

14) Was a sufficient amount of sample sent in each sample container? YES NO NA

15) Temperature of the samples upon receipt (See SOP for proper temps) 22.1 °C

16) Sample location prior to login: R25 R39 R44 F44 Ambient Shelf Cannabis Table Other: \_\_\_\_\_

Explain any discrepancies: \_\_\_\_\_

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Laboratory Terpene Quality Control Results

EPA503E				Batch ID: 1909682					
Method Blank				Laboratory Control Sample					
Analyte	Result	Blank	Notes	Result	LCS Spike	Units	LCS% Rec	Limits	Notes
a-pinene	ND	< 200		578	500	µg/g	115.5	70 - 130	
Camphene	ND	< 200		608	500	µg/g	121.5	70 - 130	
Sabinene	ND	< 200		597	500	µg/g	119.4	70 - 130	
b-Pinene	ND	< 200		586	500	µg/g	117.3	70 - 130	
b-Myrcene	ND	< 200		597	500	µg/g	119.4	70 - 130	
a-phellandrene	ND	< 200		661	500	µg/g	132.1	70 - 130	Q1
d-3-Carene	ND	< 200		581	500	µg/g	116.1	70 - 130	
a-Terpinene	ND	< 200		611	500	µg/g	122.2	70 - 130	
p-Cymene	ND	< 200		568	500	µg/g	113.7	70 - 130	
D-Limonene	ND	< 200		622	500	µg/g	124.3	70 - 130	
Eucalyptol	ND	< 200		581	500	µg/g	116.2	70 - 130	
b-cis-Öcimene	ND	< 66.7		173	167	µg/g	103.5	70 - 130	
b-trans-Öcimene	ND	< 133		418	333	µg/g	125.6	70 - 130	
g-Terpinene	ND	< 200		574	500	µg/g	114.8	70 - 130	
Sabinene Hydrate	ND	< 200		462	500	µg/g	92.3	70 - 130	
Terpinolene	ND	< 200		597	500	µg/g	119.3	70 - 130	
D-Fenchone	ND	< 200		474	500	µg/g	94.7	70 - 130	
Linalool	ND	< 200		612	500	µg/g	122.4	70 - 130	
Fenchol	ND	< 200		604	500	µg/g	120.7	70 - 130	
Camphor	ND	< 200		585	500	µg/g	117.1	70 - 130	
Isopulego	ND	< 200		594	500	µg/g	118.7	70 - 130	
Isoborneol	ND	< 200		594	500	µg/g	118.7	70 - 130	
Borneol	ND	< 200		562	500	µg/g	112.4	70 - 130	
DL-Menthol	ND	< 200		577	500	µg/g	115.4	70 - 130	
Terpineol	ND	< 200		495	500	µg/g	99.1	70 - 130	
Nerol	ND	< 200		518	500	µg/g	103.8	70 - 130	
Pulegone	ND	< 200		602	500	µg/g	120.5	70 - 130	
Geraniol	ND	< 200		473	500	µg/g	94.7	70 - 130	
Geranyl Acetate	ND	< 200		575	500	µg/g	114.9	70 - 130	
a-Cedrene	ND	< 200		568	500	µg/g	113.7	70 - 130	
b-Caryophyllene	ND	< 200		561	500	µg/g	112.1	70 - 130	
a-Humulene	ND	< 200		583	500	µg/g	116.6	70 - 130	
Valenene	ND	< 200		563	500	µg/g	112.7	70 - 130	
cis-Nerolidol	ND	< 200		582	500	µg/g	116.3	70 - 130	
a-Farnesene	ND	< 200		820	500	µg/g	163.9	70 - 130	Q1
trans-Nerolidol	ND	< 200		561	500	µg/g	112.2	70 - 130	
Caryophyllene Oxide	ND	< 200		484	500	µg/g	96.8	70 - 130	
Guaiol	ND	< 200		648	500	µg/g	129.7	70 - 130	
Cedrol	ND	< 200		533	500	µg/g	106.6	70 - 130	
a-Bisabolol	ND	< 200		576	500	µg/g	115.2	70 - 130	

Q1 Quality control result biased high. Only non-detect samples reported.



Sample/Sample Duplicate Sample ID: 19-012999-0001

Analyte	Result	Org. Result	LOC	Units	RPD %	Sample Duplicate	%Limits	Notes
a-pinene	ND	ND	200	µg/g	0	< 20	80 - 120	
Camphene	ND	ND	200	µg/g	0	< 20	80 - 120	
Sabinene	ND	ND	200	µg/g	0	< 20	80 - 120	
b-Pinene	ND	ND	200	µg/g	0	< 20	80 - 120	
b-Myrcene	ND	ND	200	µg/g	0	< 20	80 - 120	
a-phellandrene	ND	ND	200	µg/g	0	< 20	80 - 120	
d-3-Carene	ND	ND	200	µg/g	0	< 20	80 - 120	
a-Terpinene	ND	ND	200	µg/g	0	< 20	80 - 120	
p-Cymene	ND	ND	200	µg/g	0	< 20	80 - 120	
D-Limonene	ND	ND	200	µg/g	0	< 20	80 - 120	
Eucalyptol	ND	ND	200	µg/g	0	< 20	80 - 120	
b-cis-Cimene	ND	ND	66.7	µg/g	0	< 20	80 - 120	
b-trans-Ocimene	ND	ND	133	µg/g	0	< 20	80 - 120	
g-Terpinene	ND	ND	200	µg/g	0	< 20	80 - 120	
Sabinene Hydrate	ND	ND	200	µg/g	0	< 20	80 - 120	
Terpinolene	ND	ND	200	µg/g	0	< 20	80 - 120	
D-Fenchone	ND	ND	200	µg/g	0	< 20	80 - 120	
Linalool	ND	ND	200	µg/g	0	< 20	80 - 120	
Fenchol	ND	ND	200	µg/g	0	< 20	80 - 120	
Camphor	ND	ND	200	µg/g	0	< 20	80 - 120	
Isopulego	ND	ND	200	µg/g	0	< 20	80 - 120	
Isoborneol	ND	ND	200	µg/g	0	< 20	80 - 120	
Borneol	ND	ND	200	µg/g	0	< 20	80 - 120	
DL-Menthol	ND	ND	200	µg/g	0	< 20	80 - 120	
Terpineol	ND	ND	200	µg/g	0	< 20	80 - 120	
Nerol	ND	ND	200	µg/g	0	< 20	80 - 120	
Pulegone	ND	ND	200	µg/g	0	< 20	80 - 120	
Geraniol	ND	ND	200	µg/g	0	< 20	80 - 120	
Geranyl Acetate	ND	ND	200	µg/g	0	< 20	80 - 120	
a-Cedrene	ND	ND	200	µg/g	0	< 20	80 - 120	
b-Caryophyllene	ND	ND	200	µg/g	0	< 20	80 - 120	
a-Humulene	ND	ND	200	µg/g	0	< 20	80 - 120	
Valenene	ND	ND	200	µg/g	0	< 20	80 - 120	
cis-Nerolidol	ND	ND	200	µg/g	0	< 20	80 - 120	
a-Farnesene	ND	ND	200	µg/g	0	< 20	80 - 120	
trans-Nerolidol	ND	ND	200	µg/g	0	< 20	80 - 120	
Caryophyllene Oxide	ND	ND	200	µg/g	0	< 20	80 - 120	
Guaiol	ND	ND	200	µg/g	0	< 20	80 - 120	
Cedrol	ND	ND	200	µg/g	0	< 20	80 - 120	
a-Bisabolol	ND	ND	200	µg/g	0	< 20	80 - 120	





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

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 1909769

Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes		
CBDV-A	0.00961	0.01	%	96.1	85 - 115	Acceptable			
CBDV	0.0101	0.01	%	101	85 - 115	Acceptable			
CBD-A	0.00901	0.01	%	90.1	85 - 115	Acceptable			
CBG-A	0.00983	0.01	%	98.3	85 - 115	Acceptable			
CBG	0.0101	0.01	%	101	85 - 115	Acceptable			
CBD	0.00995	0.01	%	99.5	85 - 115	Acceptable			
THCV	0.0102	0.01	%	102	85 - 115	Acceptable			
THCVA	0.00998	0.01	%	99.8	85 - 115	Acceptable			
CBN	0.0101	0.01	%	101	85 - 115	Acceptable			
THC	0.0114	0.01	%	114	85 - 115	Acceptable			
D8THC	0.00929	0.01	%	92.9	85 - 115	Acceptable			
CBL	0.0108	0.01	%	108	85 - 115	Acceptable			
CEC	0.0100	0.01	%	100	85 - 115	Acceptable			
THCA	0.0117	0.01	%	117	85 - 115	Outlier	Q1		
CECA	0.00896	0.01	%	89.6	85 - 115	Acceptable			

Method Bank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes			
CBDV-A	ND	0.003	%	< 0.003	Acceptable				
CBDV	ND	0.003	%	< 0.003	Acceptable				
CBD-A	ND	0.003	%	< 0.003	Acceptable				
CBG-A	ND	0.003	%	< 0.003	Acceptable				
CBG	ND	0.003	%	< 0.003	Acceptable				
CBD	ND	0.003	%	< 0.003	Acceptable				
THCV	ND	0.003	%	< 0.003	Acceptable				
THCVA	ND	0.003	%	< 0.003	Acceptable				
CBN	ND	0.003	%	< 0.003	Acceptable				
THC	ND	0.003	%	< 0.003	Acceptable				
D8THC	ND	0.003	%	< 0.003	Acceptable				
CBL	ND	0.003	%	< 0.003	Acceptable				
CEC	ND	0.003	%	< 0.003	Acceptable				
THCA	ND	0.003	%	< 0.003	Acceptable				
CECA	ND	0.003	%	< 0.003	Acceptable				

Abbreviations

- Q1 - Quality control result biased high. Only non-detect samples reported.
- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation

Units of Measure:

%- Percent



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

JAOAC2015 V98.6		Batch ID: 1909769						
Sample Duplicate		Sample ID: 19-012943-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBV-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBV	0.0380	0.0361	0.003	%	5.13	< 20	Acceptable	
CB-A	ND	ND	0.003	%	0	< 20	Acceptable	
CB-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG	0.323	0.306	0.003	%	5.41	< 20	Acceptable	
CB	15.1	14.8	0.003	%	2.01	< 20	Acceptable	
THCV	ND	ND	0.003	%	0	< 20	Acceptable	
THCVA	ND	ND	0.003	%	0	< 20	Acceptable	
CBN	0.00976	0.00923	0.003	%	5.58	< 20	Acceptable	
THC	0.00793	0.00703	0.003	%	12.0	< 20	Acceptable	
D8THC	ND	ND	0.003	%	0	< 20	Acceptable	
CBL	ND	ND	0.003	%	0	< 20	Acceptable	
CB	0.0259	0.0244	0.003	%	5.96	< 20	Acceptable	
THCA	ND	ND	0.003	%	0	< 20	Acceptable	
CBCA	ND	ND	0.003	%	0	< 20	Acceptable	

**Abbreviations**

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

**Units of Measure:**

%- Percent



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.