



Report Number: 21-009120/D002.R000

Report Date: 08/16/2021 ORELAP#: OR100028

Purchase Order:

Received: 08/09/21 13:48

Customer: Healthy Roots Product identity: OA34 1000mg FSO

Client/Metrc ID:

Laboratory ID: 21-009120-0003

Summary

				ummary 					
Potency: Analyte	Result	Limits	Units	Status	CBD-Total per 1g	37.6 mg/1g			
CBC	0.0715		%						
CBD	3.76		%			0.500 /4			
CBD-A	0.00478		%		THC-Total per 1g	0.589 mg/1g			
CBDV [†]	0.0149		%		(Reported in milligrams per serving)				
CBE [†]	0.0171		%		(Neported in milligrams per serving)				
CBG [†]	0.0272		%						
CBT [†]	0.0229		%						
Δ9-THC	0.0589		%						
Analyte per 1g	Result	Limits	Units	Status					
CBC per 1g [†]	0.715		mg/1g						
CBD per 1g	37.6		mg/1g						
CBD-A per 1g	0.0478		mg/1g						
CBDV per 1g [†]	0.149		mg/1g						
CBE per 1g [†]	0.171		mg/1g						
CBG per 1g [†]	0.272		mg/1g						
CBT per 1g [†]	0.229		mg/1g						
Δ9-THC per 1g	0.589		mg/1g						





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Customer: Healthy Roots

Product identity: OA34 1000mg FSO

Client/Metrc ID:

Sample Date:

Laboratory ID: 21-009120-0003

Evidence of Cooling: No
Temp: 22.1 °C
Relinquished by: L. Merritt
Serving Size #1: 1 g

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod) Units %	Batch: 2107141	Analyze: 8/11/21 6:35:00 AM
Analyte	Result Limits	Units	LOQ	Notes
CBC	0.0715	%	0.0032	
CBC-A [†]	< LOQ	%	0.0032	
CBC-Total [†]	0.0715	%	0.0061	
CBD	3.76	%	0.0323	
CBD-A	0.00478	%	0.0032	
CBD-Total	3.76	%	0.0351	
CBDV [†]	0.0149	%	0.0032	
CBDV-A [†]	< LOQ	%	0.0032	
CBDV-Total [†]	0.0149	%	0.0060	
CBE [†]	0.0171	%	0.0032	
CBG [†]	0.0272	%	0.0032	
CBG-A [†]	< LOQ	%	0.0032	
CBG-Total	0.0272	%	0.0060	
CBL [†]	< LOQ	%	0.0032	
CBL-A [†]	< LOQ	%	0.0032	
CBL-Total [†]	< LOQ	%	0.0061	
CBN	< LOQ	%	0.0032	
CBT [†]	0.0229	%	0.0032	
$\Delta 8$ -THCV	< LOQ	%	0.0032	
$\Delta 8$ -THC [†]	< LOQ	%	0.0032	
Δ9-THC	0.0589	%	0.0032	
THC-A	< LOQ	%	0.0032	
THC-Total	0.0589	%	0.0061	
THCV [†]	< LOQ	%	0.0032	
THCV-A [†]	< LOQ	%	0.0032	
THCV-Total [†]	< LOQ	%	0.0060	
Total Cannabinoids [†]	3.98	%		

Potency per 1g	Method J AOA	C 2015 V98-6 (m	nod) Units mg/se B a	atch: 2107141	Analyze: 8/11/21 6:35:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g [†]	0.715		mg/1g	0.0323	
CBC-A per 1g [†]	< LOQ		mg/1g	0.0323	
CBC-Total per 1g [†]	0.715		mg/1g	0.0606	

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Potency per 1g	Method J AOA	AC 2015 V98-6 (m	od) Units mg/se Ba	atch: 2107141	Analyze: 8/11/21 6:35:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBD per 1g	37.6		mg/1g	0.323	
CBD-A per 1g	0.0478		mg/1g	0.0323	
CBD-Total per 1g	37.6		mg/1g	0.351	
CBDV per 1g [†]	0.149		mg/1g	0.0323	
CBDV-A per 1g [†]	< LOQ		mg/1g	0.0323	
CBDV-Total per 1g [†]	0.149		mg/1g	0.0602	
CBE per 1g [†]	0.171		mg/1g	0.0323	
CBG per 1g [†]	0.272		mg/1g	0.0323	
CBG-A per 1g [†]	< LOQ		mg/1g	0.0323	
CBG-Total per 1g [†]	0.272		mg/1g	0.0602	
CBL per 1g [†]	< LOQ		mg/1g	0.0323	
CBL-A per 1g [†]	< LOQ		mg/1g	0.0323	
CBL-Total per 1g [†]	< LOQ		mg/1g	0.0606	
CBN per 1g	< LOQ		mg/1g	0.0323	
CBT per 1g [†]	0.229		mg/1g	0.0323	
$\Delta 8$ -THCV per 1g [†]	< LOQ		mg/1g	0.0323	
$\Delta 8$ -THC per 1g [†]	< LOQ		mg/1g	0.0323	
Δ9-THC per 1g	0.589		mg/1g	0.0323	
exo-THC per 1g [†]	< LOQ		mg/1g	0.0323	
THC-A per 1g	< LOQ		mg/1g	0.0323	
THC-Total per 1g	0.589		mg/1g	0.0606	
THCV per 1g [†]	< LOQ		mg/1g	0.0323	
THCV-A per 1g [†]	< LOQ		mg/1g	0.0323	
THCV-Total per 1g [†]	< LOQ		mg/1g	0.0606	
Total Cannabinoids per 1g	39.8		mg/1g		





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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

g = Gram mg/1g = Milligram per 1g % = Percentage of sample % wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner General Manager





Report Number: 21-009120/D002.R000

Report Date: 08/16/2021 ORELAP#: OR100028

Purchase Order:

Received: 08/09/21 13:48



Hemp / Cannabis Usable / Extract / Finished Products **Chain of Custody Record**

Revision: 4.00 Control#: CF023 Rev 02/24/2021 Eff: 03/04/2021 ORELAP ID: OR100028



							Α	nalys	s Req	ueste	d		9*	5	PC	Number:	
6 - 0 a a G a a a a a a a a a a a a a a a a	CHAIN OF CU Company: Healthy Roots Contact: Liz Merritt Address: 14325 NE Airpo Portland, OR 9: Email: Healthyrootshem; Phone: 503-496-2329 License: AG-L 1052211FF	rt Way, #1 7230 o@gmail.c		- OR 59 compounds	Pesticide Multi-Residue – 379 compounds		solvents	Moisture & Water Activity		Micro: Yeast and Mold	<i>Coli</i> and Total Coliform	stals		Plate Count Si Jococcus, Pse	Proj Custom F Report to	ect Name: deporting: o State -	TRC or □ Other: Business Day Standard Turnaround Business Day Rush Turnaround* Business Day Rush Turnaround* Check for availability
Lab ID	Client Sample Identification OA32 [000mg ISO	Date 8/9/21	Time 2:00pn	Pesticides	Pesticide	X Potency	Residual Solvents	Moisture	Terpenes	Micro: Ye	Micro: E.Coli	Heavy Metals	Mycotoxins	otherbuc	Sample Type †	Weight (Units)	Comments/Metrc ID
_	0A33 7000mg \$50	819/21	2:00pm			χ									\$ \$	Igram	er.
	0A34 1000mg FS0	8 19/21	2:00pm			X									T	lgram	Report in mg/gr and % (percentage)
7	Relinquished By:	Date 8/9/2	7 2:00			F	teceived	dBy:			C	ate	Tir	me	☐ Shipp	ed Via:	Lab Use Only: or Client drop
A			PAR		Ju	J					8	9/21	13	:46	Evidence of cooling: Yes PNo - Temp (°C): Sample in good condition: O Cash Check CC Net: Prelog storage:		

† - Sample Type Codes: Vegetation (V); Isolates (S); Extract/Concentrate (C); Tincture/Topical (T); Edible (E); Beverage (B)

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms 3 NE Whitaker Way

P: (503) 254-1794 | Fax: (503) 254-1452

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Report Number: 21-009120/D002.R000

08/16/2021 Report Date: ORELAP#: OR100028

Purchase Order:

Received: 08/09/21 13:48

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

Laboratory Quality Control Results									
JAOAC2015 V98-6 Batch ID: 2107141									
Laboratory Contro	ol Sample								
Analyte	Result	Spike	Units	% Rec	Lir	nits	Evaluation	Notes	
CBDVA	0.0101	0.01	%	101	85.0	- 115	Acceptable		
OBDV	0.0102	0.01	%	102	85.0	- 115	Acceptable		
CBE	0.00984	0.01	%	98.4	85.0	- 115	Acceptable		
CBDA	0.0101	0.01	%	101	85.0	- 115	Acceptable		
CBGA	0.0101	0.01	%	101	85.0	- 115	Acceptable		
OBG	0.0100	0.01	%	100	85.0	- 115	Acceptable		
CBD	0.0100	0.01	%	100	85.0	- 115	Acceptable		
THCV	0.0102	0.01	%	102	85.0	- 115	Acceptable		
d8THCV	0.00999	0.01	%	99.9	85.0	- 115	Acceptable		
THCVA	0.00977	0.01	%	97.7	85.0	- 115	Acceptable		
CBN	0.0106	0.01	%	106	85.0	- 115	Acceptable		
exo-THC	0.00955	0.01	%	95.5	85.0	- 115	Acceptable		
d9THC	0.0101	0.01	%	101	85.0	- 115	Acceptable		
d8THC	0.0101	0.01	%	101	85.0	- 115	Acceptable		
CBL	0.00964	0.01	%	96.4	85.0	- 115	Acceptable		
OBC	0.0104	0.01	%	104	85.0	- 115	Acceptable		
THCA	0.0101	0.01	%	101	85.0	- 115	Acceptable		
OBCA	0.00976	0.01	%	97.6	85.0	- 115	Acceptable		
OBLA .	0.0103	0.01	%	103	85.0	- 115	Acceptable		

111 85.0 -

115 Acceptable

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	
CBDV	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	
ŒE	4.00	0.003	%	< 0.003	Acceptable	
CBDA .	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	
OBGA .	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	
OBG	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	
OBD .	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	
THCV	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	
d8THCV	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	
THCVA	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	
CBN	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	
exo-THC	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	
d9THC	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	
d8THC	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	
CBL	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	
CBC	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	
THCA	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	
OBCA	4.00	0.003	%	< 0.003	Acceptable	
OBLA .	4.00	0.003	%	< 0.003	Acceptable	
CBT C	<l0q< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></l0q<>	0.003	%	< 0.003	Acceptable	

Abbreviations

ND - None Detected at or above MRL RPD - Relative Percent Difference

0.0111

0.01 %

LOQ - Limit of Quantitation

Units of Measure:

%- Percent





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Purchase Order:

Received: 08/09/21 13:48

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

Laboratory Quality Control Results JAOAC 2015 V98-6 Sample Duplicate Analyte Batch ID: 2107141 Sample ID: 21-004639-0002-01 Units Limits Evaluation Notes Result Org. Result LOQ RPD OBDVA **√**L0Q <LOQ 0.003 Acceptable 0.0146 0.0149 0.003 Acceptable < 20 ŒE 0.0219 0.0202 0.003 8.30 Acceptable OBDA **√**L000 <L00 0.003 % NA < 20 Acceptable ŒGA <1000 <L00 0.003 NA < 20 Acceptable ŒG 4.00 <100 0.003 % NA < 20 Acceptable ŒD 5.17 5.17 0.0501 0.003 % < 20 Acceptable THCV <100Q Acceptable <LOQ 0.003 % NA < 20 √LOQ <L00 0.003 % NΑ < 20 Acceptable THCVA **√**L000 <L00 NA Acceptable 0.003 < 20 ŒN 4L0Q <L0Q 0.003 % NΑ < 20 Acceptable exo-THC **√LOQ** <L0Q 0.003 % NA < 20 Acceptable % d9THC <100 <L00 0.003 NA < 20 Acceptable d8THC **√**L0Q <L00 % NA < 20 0.003 Acceptable **√LOQ** NΑ <L00 0.003 < 20 ŒL Acceptable ŒC **√**L0Q <L0Q NA 0.003 < 20 Acceptable THCA **√LOQ** <L00 0.003 % NA < 20 Acceptable ŒCA **√LOQ** <100 0.003 NΑ < 20 Acceptable ŒLA <100Q <L0Q 0.003 NA < 20 Acceptable ŒТ **√LOQ** <LOQ 0.003 % NA < 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	Quantitaion level raised due to matrix interference.
В	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.