Columbia LABORATORIES
A Tentamus Company

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

Customer: Brothers Apothecary
Product identity: CBD Capsule 1.2
Project Number: COL-BR-13
Client/Metrc ID: .
Laboratory ID: 23-008002-0006

Summary

Potency:

Analyte	Result	Limits	Units	Status
CBD	1.38		%	
CBD-A	0.574		%	
CBG	0.0274		%	
CBG-A	0.0175		%	
Δ9-THC	0.0654		%	
THC-A	0.00544		%	

Analyte per 0.34g	Result	Limits	Units	Status
CBD per 0.34g	4.69		mg/0.34g	
CBD-A per 0.34g	1.95		mg/0.34g	
CBG per 0.34g	0.0932		mg/0.34g	
CBG-A per 0.34g	0.0595		mg/0.34g	
Δ9-THC per 0.34g	0.222		mg/0.34g	
THC-A per 0.34g	0.0185		mg/0.34g	

CBD-Total per Serving Size	6.40 mg/0.34g
THC-Total per Serving Size	0.239 mg/0.34g

(Reported in milligrams per serving)

www.columbialaboratories.com

Columbia LABORATORIES
A Tentamus Company

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

REPORT NUMBER:	23-008002/D003.R000
Report Date:	07/14/2023
ORELAP#:	OR100028
Purchase Order:	
Received:	07/07/23 12:29

Customer:	Brothers Apothecary
	3423 SE18th Ave
	Portland OR, 97202
	United States of America (USA)
Product identity:	CBD Capsule 1.2
Project Number:	COL-BR-13
Client/Metrc ID:	.
Sample Date:	
Laboratory ID:	23-008002-0006
Evidence of Cooling:	No
Temp:	22.8
Relinquished by:	client
Serving Size #1:	0.34 g

Sample Results

Potency	**Method:** J AOAC 2015 V98-6 (mod)		**Units** %	**Batch:** 2308934	**Analyze:** 7/10/23 9:33:00 PM
Analyte	**Result**	**Limits**	**Units**	**LOQ**	**Notes**
CBD$^\perp$	1.38		%	0.0314	
CBD-A$^\perp$	0.574		%	0.00314	
CBD-Total	1.88		%	0.0341	
CBG	0.0274		%	0.00314	
CBG-A	0.0175		%	0.00314	
CBG-Total	0.0428		%	0.00586	
CBN	< LOQ		%	0.00314	
Δ10-THC-9R	< LOQ		%	0.00314	
Δ10-THC-9S	< LOQ		%	0.00314	
Δ10-THC-Total	< LOQ		%	0.00628	
Δ8-THC$^\perp$	< LOQ		%	0.00314	
Δ9-THC$^\perp$	0.0654		%	0.00314	
THC-A$^\perp$	0.00544		%	0.00314	
THC-Total	0.0702		%	0.00589	
Total Cannabinoids	**2.07**		%		

Potency per 0.34g	**Method:** J AOAC 2015 V98-6 (mod)		**Units** mg/se	**Batch:** 2308934	**Analyze:** 7/10/23 9:33:00 PM
Analyte	**Result**	**Limits**	**Units**	**LOQ**	**Notes**
CBD per 0.34g	4.69		mg/0.34g	0.107	
CBD-A per 0.34g	1.95		mg/0.34g	0.0107	
CBD-Total per 0.34g	6.40		mg/0.34g	0.116	
CBG per 0.34g	0.0932		mg/0.34g	0.0107	
CBG-A per 0.34g	0.0595		mg/0.34g	0.0107	
CBG-Total per 0.34g	0.145		mg/0.34g	0.0199	
CBN per 0.34g	< LOQ		mg/0.34g	0.0107	
Δ10-THC-9R per 0.34g	< LOQ		mg/0.34g	0.0107	
Δ10-THC-9S per 0.34g	< LOQ		mg/0.34g	0.0107	
Δ10-THC-Total per 0.34g	< LOQ		mg/0.34g	0.0213	
Δ8-THC per 0.34g	< LOQ		mg/0.34g	0.0107	

Columbia
LABORATORIES
A Tentamus Company

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

Potency per 0.34g	**Method:** J AOAC 2015 V98-6 (mod)		**Units** mg/se **Batch:** 2308934	**Analyze:** 7/10/23 9:33:00 PM	
Analyte	**Result**	**Limits**	**Units**	**LOQ**	**Notes**
Δ9-THC per 0.34g	0.222		mg/0.34g	0.0107	
THC-A per 0.34g	0.0185		mg/0.34g	0.0107	
THC-Total per 0.34g	0.239		mg/0.34g	0.0200	

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

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.

♭ = ISO/IEC 17025:2017 accredited method.

¥ = TNI accredited analyte.

Units of Measure

g = g

mg/0.34g = Milligram per 0.34g

% = Percentage of sample

% wt = μg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

![Columbia Laboratories - A Tentamus Company]

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

REPORT NUMBER: 23-008002/D003.R000
Report Date: 07/14/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/07/23 12:29

Revision: 4 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6					Batch ID: 2308934					

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits			Evaluation	Notes
CBDVA	2	0.0319	0.0316	%	101	80.0	-	120	Acceptable	
CBDV	2	0.0323	0.0315	%	102	80.0	-	120	Acceptable	
CBE	2	0.0332	0.0348	%	95.4	80.0	-	120	Acceptable	
CBDA	1	0.0318	0.0325	%	98.0	90.0	-	110	Acceptable	
CBGA	1	0.0319	0.0326	%	97.9	80.0	-	120	Acceptable	
CBG	1	0.0322	0.0332	%	97.0	80.0	-	120	Acceptable	
CBD	1	0.0328	0.0337	%	97.1	90.0	-	110	Acceptable	
THCV	2	0.0243	0.0236	%	103	80.0	-	120	Acceptable	
d8THCV	2	0.0283	0.0279	%	102	80.0	-	120	Acceptable	
THCVA	2	0.0315	0.0308	%	102	80.0	-	120	Acceptable	
CBN	1	0.0325	0.0340	%	95.6	80.0	-	120	Acceptable	
exo-THC	2	0.0286	0.0283	%	101	80.0	-	120	Acceptable	
d9THC	1	0.0317	0.0329	%	96.4	90.0	-	110	Acceptable	
d8THC	1	0.0311	0.0320	%	97.3	90.0	-	110	Acceptable	
9S-d10THC	1	0.0333	0.0343	%	97.2	80.0	-	120	Acceptable	
CBL	2	0.0325	0.0311	%	104	80.0	-	120	Acceptable	
9R-d10THC	1	0.0301	0.0313	%	96.2	80.0	-	120	Acceptable	
CBC	2	0.0294	0.0293	%	100	80.0	-	120	Acceptable	
THCA	1	0.0314	0.0322	%	97.4	90.0	-	110	Acceptable	
CBCA	2	0.0327	0.0320	%	103	80.0	-	120	Acceptable	
CBLA	2	0.0310	0.0302	%	103	80.0	-	120	Acceptable	
d9THCP	2	0.0330	0.0326	%	101	80.0	-	120	Acceptable	
CBT	2	0.0321	0.0326	%	98.3	80.0	-	120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBDV	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBE	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBDA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBGA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBG	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBD	<LOQ	0.00322	%	< 0.00322	Acceptable	
THCV	<LOQ	0.00322	%	< 0.00322	Acceptable	
d8THCV	<LOQ	0.00322	%	< 0.00322	Acceptable	
THCVA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBN	<LOQ	0.00322	%	< 0.00322	Acceptable	
exo-THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
d9THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
d8THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
9S-d10THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBL	<LOQ	0.00322	%	< 0.00322	Acceptable	
9R-d10THC	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBC	<LOQ	0.00322	%	< 0.00322	Acceptable	
THCA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBCA	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBLA	<LOQ	0.00322	%	< 0.00322	Acceptable	
d9THCP	<LOQ	0.00322	%	< 0.00322	Acceptable	
CBT	<LOQ	0.00322	%	< 0.00322	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent

Columbia LABORATORIES A Tentamus Company

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

REPORT NUMBER: 23-008002/D003.R000
Report Date: 07/14/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/07/23 12:29

Revision: 4 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6						Batch ID: 2308934		
Sample Duplicate						Sample ID: 23-007976-0001		
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
CBG	0.0201	0.0196	0.00308	%	2.41	< 20	Acceptable	
CBD	0.691	0.681	0.00308	%	1.46	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
CBN	0.126	0.125	0.00308	%	1.39	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
CBC	0.00582	0.00580	0.00308	%	0.290	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent

REPORT Number: 23-008002/D003.R000

Report Date: 07/14/2023

ORELAP#: OR100028

Purchase Order:

Received: 07/07/23 12:29

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.