Columbia
LABORATORIES
A Tentamus Company

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

Customer:	Brothers Apothecary
Product identity:	CBG Tea 1.1
Project Number:	COL-BR-13
Client/Metrc ID:	.
Laboratory ID:	23-008002-0009

Summary

Potency:

Analyte	Result	Limits	Units	Status
CBD	0.484		%	
CBD-A	0.0307		%	
CBG	0.727		%	
CBG-A	0.0831		%	
Δ9-THC	0.0241		%	

Analyte per 4.45g	Result	Limits	Units	Status
CBD per 4.45g	21.5		mg/4.45g	
CBD-A per 4.45g	1.37		mg/4.45g	
CBG per 4.45g	32.4		mg/4.45g	
CBG-A per 4.45g	3.70		mg/4.45g	
Δ9-THC per 4.45g	1.07		mg/4.45g	

CBD-Total per Serving Size	22.7 mg/4.45g
THC-Total per Serving Size	1.07 mg/4.45g

(Reported in milligrams per serving)

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Customer: Brothers Apothecary
3423 SE18th Ave
Portland OR, 97202
United States of America (USA)

Product identity:	CBG Tea 1.1
Project Number:	COL-BR-13
Client/Metrc ID:	.
Sample Date:	
Laboratory ID:	23-008002-0009
Evidence of Cooling:	No
Temp:	22.8
Relinquished by:	client
Serving Size #1:	4.45 g

Sample Results

Potency	**Method:** J AOAC 2015 V98-6 (mod)ᵇ		**Units** %	**Batch:** 2308934	**Analyze:** 7/10/23 10:04:00 PM
Analyte	**Result**	**Limits**	**Units**	**LOQ**	**Notes**
CBD	0.484		%	0.00321	
CBD-A	0.0307		%	0.00321	
CBD-Total	0.511		%	0.00602	
CBG	0.727		%	0.00321	
CBG-A	0.0831		%	0.00321	
CBG-Total	0.800		%	0.00599	
CBN	< LOQ		%	0.00321	
Δ10-THC-9R	< LOQ		%	0.00321	
Δ10-THC-9S	< LOQ		%	0.00321	
Δ10-THC-Total	< LOQ		%	0.00641	
Δ8-THC	< LOQ		%	0.00321	
Δ9-THC	0.0241		%	0.00321	
THC-A	< LOQ		%	0.00321	
THC-Total	0.0241		%	0.00602	
Total Cannabinoids	**1.35**		%		

Potency per 4.45g	**Method:** J AOAC 2015 V98-6 (mod)ᵇ		**Units** mg/se	**Batch:** 2308934	**Analyze:** 7/10/23 10:04:00 PM
Analyte	**Result**	**Limits**	**Units**	**LOQ**	**Notes**
CBD per 4.45g	21.5		mg/4.45g	0.143	
CBD-A per 4.45g	1.37		mg/4.45g	0.143	
CBD-Total per 4.45g	22.7		mg/4.45g	0.268	
CBG per 4.45g	32.4		mg/4.45g	0.143	
CBG-A per 4.45g	3.70		mg/4.45g	0.143	
CBG-Total per 4.45g	35.6		mg/4.45g	0.266	
CBN per 4.45g	< LOQ		mg/4.45g	0.143	
Δ10-THC-9R per 4.45g	< LOQ		mg/4.45g	0.143	
Δ10-THC-9S per 4.45g	< LOQ		mg/4.45g	0.143	
Δ10-THC-Total per 4.45g	< LOQ		mg/4.45g	0.285	
Δ8-THC per 4.45g	< LOQ		mg/4.45g	0.143	

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Potency per 4.45g	**Method:** J AOAC 2015 V98-6 (mod)[b]		**Units** mg/se **Batch:** 2308934		**Analyze:** 7/10/23 10:04:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
Δ9-THC per 4.45g	1.07		mg/4.45g	0.143	
THC-A per 4.45g	< LOQ		mg/4.45g	0.143	
THC-Total per 4.45g	1.07		mg/4.45g	0.268	

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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.

Units of Measure

 g = g
 mg/4.45g = Milligram per 4.45g
 % = Percentage of sample
 % wt = μg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

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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

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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

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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.