

Whole Circle Farms Massage Oil

Lab ID: 2011128-01

330-1045887IHH

Harvest / Process Lot: WCF.Lifter.19

METRC Batch ID: SHHW.20.Lifter. Lot 17

Date Sampled: 11/19/20

Date Printed: 11/24/20

Potency Analysis

Analytical Method: De Backer, Journal of Chromatography b.2009. 11.004 -
SOP 102 - Cannabinoids via High Performance Liquid Chromatography

Cannabinoids	mg/g	LOQ
THCA	< LOQ	0.0747
delta 9-THC	< LOQ	0.0747
delta 8-THC	< LOQ	0.0747
CBGA	< LOQ	0.0747
CBDA	1.65	0.0747
CBD	0.549	0.0747
CBN	< LOQ	0.0747
CBG	< LOQ	0.0747
CBC	< LOQ	0.0747
Total CBG	< LOQ	0.0747
Total Cannabinoids	1.99	0.0747

Total THC
< LOQ mg/g

Total CBD
1.99 mg/g

<LOQ - Results below the Limit of Quantitation

Acid form of THC/CBD are decarboxylated by heat, lose 12% of original mass as CO2. Result = *bioactive*

"Total" Cannabinoid accounts for decarboxylation and moisture content. Total THC = $[(THCA \times 0.877) + \Delta 9THC] / (100\% - MC)$



Erik Werstler
Lab Director

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Quality Control Potency

Batch: B20K084 - Potency

Blank(B20K084-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0741	mg/g		11/19/20 18:43	11/19/20 21:26	
delta 9-THC	< LOQ	0.0741	mg/g		11/19/20 18:43	11/19/20 21:26	
CBGA	< LOQ	0.0741	mg/g		11/19/20 18:43	11/19/20 21:26	
CBDA	< LOQ	0.0741	mg/g		11/19/20 18:43	11/19/20 21:26	
CBD	< LOQ	0.0741	mg/g		11/19/20 18:43	11/19/20 21:26	
CBN	< LOQ	0.0741	mg/g		11/19/20 18:43	11/19/20 21:26	
CBG	< LOQ	0.0741	mg/g		11/19/20 18:43	11/19/20 21:26	
delta 8-THC	< LOQ	0.0741	mg/g		11/19/20 18:43	11/19/20 21:26	
CBC	< LOQ	0.0741	mg/g		11/19/20 18:43	11/19/20 21:26	

LCS(B20K084-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	99.7	0.0745	mg/g	85-115	11/19/20 18:43	11/19/20 21:36	
delta 9-THC	103	0.0745	mg/g	85-115	11/19/20 18:43	11/19/20 21:36	
CBDA	101	0.0745	mg/g	85-115	11/19/20 18:43	11/19/20 21:36	
CBD	99.4	0.0745	mg/g	85-115	11/19/20 18:43	11/19/20 21:36	

Notes and Definitions

- B Analyte detected in method blank, but not associated samples.
 - B2 Analyte detected in sample and associate method blank.
 - C Interference due to co-elution.
 - D Initial result exceeded calibration range, reported data are based on analysis of a dilution.
 - H Non-homogenous sample matrix affecting RPD and/or QC.
 - I Manual Integration was performed.
 - L Duplicate sample relative percent difference (RPD) exceeds QC limits.
 - M Anomalous results due to matrix interference
 - P Peaks manually split.
 - Q1 QC out of limits but still ok
 - Q2 Quality Control outside QC limits. Data considered estimate.
 - Q3 CCV was above the acceptance criteria. Non-detect samples are considered acceptable.
 - Q4 CCV was below the acceptance criteria, however the sample still exceeds the regulatory limit.
 - R Marginal Exceedence.
 - U Reported result is an estimate. The analyte was detected above the calibration range.
 - X Problems with initial analysis, reported data are from reinjection of prepared sample.
- <LOQ - Results below the Limit of Quantitation - Compound not detected



Erik Werstler
Lab Director