



Analytical Test Report

Science First. ORELAP ID: 4096 OLCC#: 010-1002112892C

7200 Johnson Creek Blvd., Portland, OR 97206 (503) 307-0096

Muscle & Joint Balm

Lab ID: 2208135-01

Myxner Systemz

METRC Batch ID: Batch #22MJ100

Date Sampled: 08/12/22

Date Printed: 08/18/22

Report cannot be used for OLCC/OHA compliance.

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	Notes
THCA	< LOQ	0.0490	
delta 9-THC	< LOQ	0.0490	
delta 8-THC	< LOQ	0.0490	
CBDA	3.26	0.0490	
CBDVA	0.237	0.0490	
CBGA	3.31	0.0490	
CBD	13.9	0.0490	
CBDV	0.0930	0.0490	
CBG	0.220	0.0490	
CBN	0.108	0.0490	
CBC	0.272	0.0490	
Total CBG	3.12	0.0490	
Total Cannabinoids	20.6	0.0490	

Total THC
< LOQ mg/g

Total CBD
16.8 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 = $[(\text{THCA} \times 0.877) + \Delta 9\text{THC}] / (100\% - \text{MC})$

Chris Griffey
Lab Director



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Quality Control Potency

Batch: B22H102 - Potency

Blank(B22H102-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0550	mg/g		08/15/22 18:00	08/15/22 20:34	
delta 9-THC	< LOQ	0.0550	mg/g		08/15/22 18:00	08/15/22 20:34	
CBGA	< LOQ	0.0550	mg/g		08/15/22 18:00	08/15/22 20:34	
CBDA	< LOQ	0.0550	mg/g		08/15/22 18:00	08/15/22 20:34	
CBD	< LOQ	0.0550	mg/g		08/15/22 18:00	08/15/22 20:34	
CBN	< LOQ	0.0550	mg/g		08/15/22 18:00	08/15/22 20:34	
CBG	< LOQ	0.0550	mg/g		08/15/22 18:00	08/15/22 20:34	
delta 8-THC	< LOQ	0.0550	mg/g		08/15/22 18:00	08/15/22 20:34	
CBC	< LOQ	0.0550	mg/g		08/15/22 18:00	08/15/22 20:34	
Total CBG	< LOQ	0.0550	mg/g		08/15/22 18:00	08/15/22 20:34	
CBDVA	< LOQ	0.0550	mg/g		08/15/22 18:00	08/15/22 20:34	
CBDV	< LOQ	0.0550	mg/g		08/15/22 18:00	08/15/22 20:34	

LCS(B22H102-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	100	0.0562	mg/g	90-110	08/15/22 18:00	08/15/22 20:50	
delta 9-THC	102	0.0562	mg/g	90-110	08/15/22 18:00	08/15/22 20:50	
CBDA	102	0.0562	mg/g	90-110	08/15/22 18:00	08/15/22 20:50	
CBD	102	0.0562	mg/g	90-110	08/15/22 18:00	08/15/22 20:50	
delta 8-THC	103	0.0562	mg/g	90-110	08/15/22 18:00	08/15/22 20:50	

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Lab Director



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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

A handwritten signature in black ink that reads "Chris Griffey".

Chris Griffey
Lab Director