



4206923

Sample ID: G3E0097-08

Matrix: Hemp Extracts & Concentrates

Test ID: 5025451

Source ID:

Date Sampled: 05/08/23

Date Accepted: 05/08/23

Harvest/Prod. Date: 02.05.2023

Butter OG, LLC
coa@butterog.com

Results at a Glance

Total THC : <LOQ (0.1577%) %

Total CBD : <LOQ (0.0431%) %

delta 8-THC : 73.23 % PASS



**ISO 17025
ACCREDITED
LABORATORY**

Eric Wendt
Chief Science Officer - 5/11/2023

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Potency Analysis by HPLC

Date/Time Extracted: 05/09/23 09:26

Analysis Method/SOP: 215

Batch Identification: 2319009

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.1577	< LOQ	< LOQ	<p>73.2</p> <p>2.4</p> <p>75.6</p>
Total CBD	0.0431	< LOQ	< LOQ	
THCA	0.0005	< LOQ	< LOQ	
delta 9-THC	0.0005	< LOQ	< LOQ	
delta 8-THC	0.0934	73.23	732.3	
THCV	0.1052	< LOQ	< LOQ	
THCVA	0.0392	< LOQ	< LOQ	
CBD	0.0005	< LOQ	< LOQ	
CBDA	0.0005	< LOQ	< LOQ	
CBDV	0.1040	< LOQ	< LOQ	
CBDVA	0.0341	< LOQ	< LOQ	
CBN	0.0622	< LOQ	< LOQ	
CBG	0.0164	< LOQ	< LOQ	
CBGA	0.0164	< LOQ	< LOQ	
CBC	0.0186	2.367	23.67	
Total Cannabinoids		75.60	756	

Total THC = delta 9-THC + (THCA * 0.877)

Total CBD = CBD + (CBDA * 0.877)

Total CBG = CBG + (CBGA * 0.878)

LOQ=Limit of Quantification, the lowest measurable concentration of an analyte.



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Quality Control Potency

Batch: 2319009 - 215-Concentrates

Blank(2319009-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		05/09/23 09:26	05/09/23 16:17	
delta 9-THC	< LOQ	0.0005	%		05/09/23 09:26	05/09/23 16:17	
delta 8-THC	< LOQ	0.0934	%		05/09/23 09:26	05/09/23 16:17	
THCV	< LOQ	0.1052	%		05/09/23 09:26	05/09/23 16:17	
THCVA	< LOQ	0.0392	%		05/09/23 09:26	05/09/23 16:17	
CBD	< LOQ	0.0005	%		05/09/23 09:26	05/09/23 16:17	
CBDA	< LOQ	0.0005	%		05/09/23 09:26	05/09/23 16:17	
CBDV	< LOQ	0.1040	%		05/09/23 09:26	05/09/23 16:17	
CBDVA	< LOQ	0.0341	%		05/09/23 09:26	05/09/23 16:17	
CBN	< LOQ	0.0622	%		05/09/23 09:26	05/09/23 16:17	
CBG	< LOQ	0.0164	%		05/09/23 09:26	05/09/23 16:17	
CBGA	< LOQ	0.0164	%		05/09/23 09:26	05/09/23 16:17	
CBC	< LOQ	0.0186	%		05/09/23 09:26	05/09/23 16:17	

Reference(2319009-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	93.4	0.0002	%	90-110	05/09/23 09:26	05/09/23 16:40	
delta 9-THC	106	0.0002	%	90-110	05/09/23 09:26	05/09/23 16:40	
delta 8-THC	96.5	0.0464	%	90-110	05/09/23 09:26	05/09/23 16:40	
CBD	109	0.0002	%	90-110	05/09/23 09:26	05/09/23 16:40	
CBDA	95.3	0.0002	%	90-110	05/09/23 09:26	05/09/23 16:40	



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Notes and Definitions

Regulatory Compliance samples were collected onsite at facility according to ORELAP-SOP-001 and ORELAP-SOP-002 and following Sampling Plan FN117. Quality Control samples were tested as received. Results do not include uncertainty of measurements. Available upon request.

- ATM Non-cannabis matrix related interference or suppression of Internal standard
- BLI Baseline Interference - Cannabinoid peak interference in chromatographic baseline affecting QC recovery .
- BLK Analyte detected in method blank, but not associated samples.
- BSH Blank Spike High - Blank Spike recovery above method limit. no detections in samples.
- BSL Blank Spike Low - Blank Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
- CBD Interference due to co-elution
- CV1 CBD matrix interference on GC Pest chromatography
- CV2 CCV was above acceptance criteria, Non-detect samples are considered acceptable.
- INF CCV was below acceptance criteria, sample still exceeds regulatory limit.
- ISH One or more QC falls outside acceptance criteria. Data entered into LIMS for informational purposes only.
- ISL Internal Standard concentration is above acceptance criteria.
- MSH Internal Standard concentration is below acceptance criteria.
- MSI Matrix Spike High - Matrix Spike recovery above method limits.
- MSL Matrix Spike Interference - Matrix spike source sample contains analyte hit above calibration affecting recovery accuracy in Matrix Spike.
- TPP Matrix Spike Low - Matrix Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
- U Internal Standard concentration outside control limit due to matrix interference



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