

Certificate of Analysis

420 Fortune Blvd Sample ID: 108792 Report Title: Certificate of Analysis Milford, MA 01757 Order No.: 39486 Revision: 1

Report Date: 9/5/2022



B. RMD INFO

SkyNutro 65 Moon Street Southbridge, MA 01550 Attn: Kim Melanson

Manifest No: n/a

Date Received: 8/30/2022

C. SAMPLE IDENTIFICATION

METRC Package ID: n/a

Sample Name: RelefCBDRelax

Prod. Batch ID: **n/a**

Source Pkg. ID: n/a

D. PICTURE OF SAMPLE



E. SAMPLE PROPERTIES

Sample Size: **0**# of Servings: **n/a**

Matrix: Liquid

Matrix Other: n/a

Sample Condition: Unremarkable

Retest: No
Remediated: No
Description: n/a

F. PRODUCT CHARACTERIZATION

Product Stage: Marijuana-Infused Product (MIP)

Product Class: Tincture

Other: n/a

Product Type: Tincture

Retail Name: RelefCBDRelax

Grow Material: n/a

Intended Route of n/a
Consumption

Other: n/a

Extraction Solvent: n/a

Other: n/a

G. TEST TYPE RUN

- ✓ (CN) Cannabinoid Profile
- ✓ (HM) Heavy Metal Analysis
- (MB) Microbiology Test
- ✓ (PT) Pathogen Screen
- ✓ (MY) Mycotoxin Test
- (VC) Residual Solvent Test
- (PS) Pesticide Screen
- ☐ (TP) Terpene Profile
- (VEA) Vitamin E Acetate
- (PSZP) Particle Size/Zeta Potential
- (WAMA) Water Activity /
 Moisture Analysis
- (VI) Filth & Foreign Matter

Mistophen Hudalla



The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2017. I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

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H. CASE NARRATIVE

For full Case Narrative, see details in PAGE 2

THIS PRODUCT

- ✓ May be dispensed
- ☐ May be dispensed as INGESTION only
- May NOT be dispensed

LAB AUTHORIZATION SIGNATURE

Chris Hudalla, Ph.D.

Chief Science Officer

H. CASE NARRATIVE

The sample was provided to the laboratory by a RMD agent. Sample was submitted in a sealed container under ambient conditions. Chain of Custody seal was intact. All recorded contaminants are within the established limits.

Test Summary:

Cannabinoid Analysis: The sample was analyzed for cannabinoids by Liquid Chromatography (WI-10-17). Prior to analysis, sample was prepared by extraction with an organic solvent, filtered and diluted with an appropriate HPLC diluent. The recorded data was compared to data collected for certified reference standards for quantification.

Heavy Metal Analysis: The sample was analyzed for heavy metals by Inductively Coupled Plasma Mass Spectrometry (WI-10-13). Prior to analysis, sample was prepared by a microwave assisted acidic digestion, followed by dilution with acidified water. The recorded data was compared to data collected for certified reference standards for quantification.

Microbiological Screening: The sample was analyzed for microbial contaminants by an automated Most Probable Number enumeration (WI-10-09) [BioMerieux]. Prior to analysis, sample was prepared with peptone buffered water to extract microbial contaminants.

Pathogenic Bacteria: The sample was analyzed for the pathogenic bacteria E. coli and salmonella with an automated Enzyme-Linked Fluorescence Assay (WI-10-10) [BioMerieux]. Prior to analysis, sample was prepared with peptone buffered water to extract microbial contaminants, followed by incubation to enrich potential contaminants.

Mycotoxin Testing: The sample was analyzed for mycotoxins using an ImmunoAffinity Assay with fluorometric detection (WI-10-05). Prior to analysis, sample was extracted with organic solvent, followed by the ImmunoAffinity column clean-up.

Pesticide Analysis: The sample was screened for the presence of pesticide residues by Liquid Chromatography with Tandem Mass Spectrometric detection (WI-10-11). Prior to analysis, the sample was extracted with acetonitrile followed by chemical cleanup and filtration of the extract. A duplicate aliquot of the sample extract was spiked with a pesticide standard mixture to evaluate matrix effects and perform matrix-matched quantitation of incurred residues. Peak identity was confirmed by monitoring the relative abundance of at least two fragmentation transitions of the target pseudo-molecular ion.

QC Summary:

Cannabinoid QC: A method blank was prepared in parallel with the study sample, using only associated reagents, with no matrix included. In addition, quantitation was evaluated with a Continuing Calibration Verification (CCV) sample.

Heavy Metals QC: A method blank was prepared in parallel with the study sample, using only associated reagents, with no matrix included. In addition, quantitation was evaluated with a Continuing Calibration Verification (CCV) sample.

Microbiological QC: A method blank was prepared in parallel with the study sample, using only associated reagents, with no matrix included. In addition, an environmental blank was collected using a 3M PetriFilm, that was exposed to work area during sample preparation, followed by incubation to confirm the absence of environmental contaminants.

Pathogenic Bacteria QC: For each pathogen, a positive and negative control sample is run on a monthly basis.

Mycotoxin QC: Performance of fluorometer is verified daily using standard reference materials prior to data measurement.

Pesticide QC: A method blank was prepared in parallel with the study sample, using only associated reagents, with no matrix included. In addition, quantitation was evaluated with a Continuing Calibration Verification (CCV) sample.

Analysis Date: 9/1/2022

TABLE I: CANNABINOID PROFILE

Sample ID: 108792 By UPLC

Analyst: AC

This sample was analyzed using Liquid Chromatography (LC). The collected data was compared to data collected for a reference standards at a known concentration.

Test ID	Analyte	Concentration unit = %wt	"Dose" weight unit = mg/mL	LOD unit = ppm	LOQ unit = ppm
A108792	Δ9-THC	ND	ND	39.3	118
A108792	THCV	ND	ND	39.3	118
A108792	CBD	0.687	6.12	39.3	118
A108792	CBDV	<loq< td=""><td><loq< td=""><td>39.3</td><td>118</td></loq<></td></loq<>	<loq< td=""><td>39.3</td><td>118</td></loq<>	39.3	118
A108792	CBG	ND	ND	39.3	118
A108792	СВС	<loq< td=""><td><loq< td=""><td>39.3</td><td>118</td></loq<></td></loq<>	<loq< td=""><td>39.3</td><td>118</td></loq<>	39.3	118
A108792	CBN	0.674	6.00	39.3	118
A108792	THCA	ND	ND	39.3	118
A108792	CBDA	ND	ND	39.3	118
A108792	CBGA	ND	ND	39.3	118
A108792	CBDVA	ND	ND	39.3	118
A108792	Δ8-THC	ND	ND	39.3	118
A108792	exo-THC	ND	ND	39.3	118
	Max THC	-	ND		
	Max CBD	0.687 wt%	6.12		
	Total Cannibinoid (TAC)	1.36 wt%	12.1		

There are no limits established by the Massachusetts Department of Public Health for cannabinoid concentrations. Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: Max THC = (0.877 x THCA) + THC. This calculation includes concentrations of both D8- and D9-THC, but does not include other cannabinoid isomers (e.g. exo-THC). ND = None detected above the Limits of Detection (LOD).

0:1

TABLE J: HEAVY METALS Analysis Date: 8/31/2022

Sample ID: 108792 By ICPMS

Lab SOP #: WI-10-13

Analyst: ZDV

This sample was analyzed by elemental analysis using Inductively Coupled Plasma Mass Spectrometry (ICP-MS) for the identification of heavy metal constituents. External calibration curves for heavy metals were used for quantitation, with an additional internal reference standard. Resulting data was compared with a sample blank.

Test ID Analyte		Concentration LOD		LOQ	Limits - All Use ²		Limits - Ingestion Only ²		
Test ID	Allalyte	unit = ppb	unit = ppb	unit = ppb	Limits (ppb)	Test	Limits (ppb)	Test	
108792	As	ND	25	50	200	PASS	1500	PASS	
108792	Cd	ND	25	50	200	PASS	500	PASS	
108792	Hg	ND	25	50	100	PASS	1500	PASS	
108792	Pb	ND	25	50	500	PASS	1000	PASS	

¹⁾ ND = None detected to the Limit of Detection (LOD).

CBD to THC Ratio

²⁾ Testing limits established by the Massachusetts Department of Public Health, Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries, Exhibit 4.

TABLE K: MICROBIOLOGICAL CONTAMINANTSAnalysis Date: 8/31/2022Sample ID: 108792 By MPNLab SOP #: WI-10-09Analysis SRD

This sample was analyzed for microbiological contaminants using an automated Most Probable Number (MPN) methodolog with cultured enrichments.

Test ID	Analyte Symbol	Test Analysis	Result	Unit	Standard Limits unit = CFU/g	Limit Test
108792	YM	Total Yeast & Mold	<100	CFU/g	10,000 CFU/g	PASS
108792	СС	Total Coliform Bacterial Count	<100	CFU/g	1,000 CFU/g	PASS
108792	EB	Total Bile Tolerant Gram Negative Count	<100	CFU/g	1,000 CFU/g	PASS
108792	AC	Total Aerobic Bacterial Count	<100	CFU/g	100,000 CFU/g	PASS

Recommended limits established by the American Herbal Pharmacopoeia (AHP) monograph for Cannabis Inflorescence [2013], for consumable botanical products, including processed and unprocessed cannabis materials, and solvent-based extracts. Note: All recorded Microbiological tests are within the established limits.

*Testing limits established by the Massachusetts Department of Public Health, Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries, Exhibit 6.

TABLE L: PATH	OGENIC BACTI	ERIA		Analys	is Date: 9/1/2022
Sample ID: 10	Sample ID: 108792 By ELFA Lab SOP #: WI-		10-10		Analyst: AEH
This sample was analyzed for pathogenic bacteria using an automated Enzyme Linked Fluorescent performed monthly by running both a positive and a negative control sample for each pathogen. Test ID Analyte Symbol Test Analysis Result		t Assay (ELFA). Quality con	trol checks are		
108792	ECPT	E. coli (O157)	Negative	Non Detected in 1g	PASS
108792	SPT	Salmonella	Negative	Non Detected in 1g	PASS

Note: All recorded pathogenic bacteria tests passed.

*Testing limits established by the Massachusetts Department of Public Health, Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries, Exhibit 6.

TABLE M: MY	COTOXINS					Ana	lysis Date: 8/31/2022
Sample ID: 108792 By IA/Fluorescen Lab			Lab SOI	P #: WI-10-05		3T: ANALYST:	: ANALYST: ANALYST:
This sample was analyzed for mycotoxins using an Imunno Affinity based assay (IA). Data was compared to readings from standard reference materials.							
Test ID	Analyte Symbol	Analyte	Result unit = ppb	LOD unit = ppb	LOQ unit = ppb	Standard Limits unit = ppb	Limit Test
108792	Afla	Total Aflatoxin	< LOD	2	4	< 20	PASS
108792	Ochra	Total Ochratoxin	< LOQ	3	6	< 20	PASS

Note: All recorded Mycotoxin tests are within the established limits.

*Testing limits established by the Massachusetts Department of Public Health, Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries, Exhibit 6.

MLD = Method Detection Limit.

TABLE O: PESTICIDES		Analysis Date: 8/31/2022
Sample ID: 108792 By LCMSMS	Lab SOP #: WI-10-11	Analyst: CJR

This sample was analyzed for pesticides using Liquid Chromatography with Mass Spectrometric detection (LC/MS/MS). The method used for sample prep was based on the European method for pesticide analysis (EN 15662).

Test ID	Analyte	Result	LOD	LOQ	Standar		Method
	,	unit = ppb	unit = ppb	unit = ppb	unit = ppb	Test	QA/QC Test
108792	Bifenazate	ND	5	10	10	PASS	MS/MSD
108792	Bifenthrin	ND	5	20	10	PASS	MS/MSD
108792	Cyfluthrin	ND	100	500	10	PASS	MS/MSD
108792	Etoxazole	ND	5	20	10	PASS	MS/MSD
108792	Imazalil	ND	50	100	10	PASS	MS/MSD
108792	Imidacloprid	ND	5	20	10	PASS	MS/MSD
108792	Myclobutanil	ND	5	20	10	PASS	MS/MSD
108792	Spiromesifen	ND	5	40	10	PASS	MS/MSD
108792	Trifloxystrobin	ND	5	20	10	PASS	MS/MSD

Note: All recorded Pesticide are within the established limits.

TABLE R: QC RESULTS - HEAVY METALS Analysis Date: 8/31/					
Analytical Method: ICPMS	Lab SOP #	Analyst: ZDV			
A blank sample was prepared in pa	rallel with the study sample, using on	ly associated reagents with no matrix	included.		
Analyte	Prep. Concentration unit = ppb	Measured Concentration unit = ppb	Recovery %		
As	500	545	109		
Cd	500	543	109		
Hg	2.5	2.45	98.1		
Pb	500	499	99.7		

TABLE S: QC RESULTS - MICROBIOLOGICAL CONTAMINANTS		Analysis Date: 8/31/2022			
Analytical Method: MPN	Lab SOP #: WI-10-09	Analyst: SRD			
Monthly quality control checks are used to validate the equipment used for reading incubated microbiological cultures, performing multiple					

Monthly quality control checks are used to validate the equipment used for reading incubated microbiological cultures, performing multiple readings at various concentrations to confirm performance. Date of last QC check must be within 30 days of recorded measurements.

Date of most recent QC Check: 8/3/2022 Status: PASS

TABLE T: QC RESULTS - PA	ATHOGENIC BACTERIA		Analysis Date: 8/25/2022					
Analytical Method: ELFA	nalytical Method: ELFA Lab SOP #: WI-10-10			Analyst: AEH				
For each pathogen, a positive and negative control sample is run as a QC check on a monthly basis. In addition, for each pathogen, two standard samples are tested to ensure accurate readings. Date of last QC check must be within 30 days of recorded measurements.								
Test Date	QC Check	Pathogen	Result	Status				

Test Date	QC Check	Pathogen	Result	Status
8/25/2022	Control (-)	Salmonella	Negative	PASS
8/25/2022	Control (-)	E. coli (O157)	Negative	PASS
8/25/2022	Control (+)	Salmonella	Positive	PASS

^{*} Testing limits established by the Massachusetts Department of Public Health, Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries, Exhibit 5. ND indicates "none detected" above the lower limit of detection (LLD). Analytes marked with (*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample due to matrix interference.

	8/25/2022	Control (+)	E. coli (O157)	Positive	PASS	l
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TABLE U: QC RESULTS - MYCOTOXINS Analysis Date: 8/31/20						
Analytical Method: IA/FLUORESCENC Lab SOP #: V		: WI-10-05 Analyst:				
Performance of fluorometer is verified using standard reference materials prior to data measurements.						
Analyte	Reference Concentration unit = ppb	Measured Concentration unit = ppb	Status			
Aflatoxin Reference	79 ± 5	79	PASS			
Ochratoxin Reference	79 ± 5	79	PASS			

TABLE W: QC RESULTS - PESTICIDES Analysis Date: 8/31/2022						
		Analyst: CJR				
A matrix spiked with a mixture of the individual pesticides was prepared such that the final concentration of each pesticide for analysis was 50 ppb.						
Analyte	Prep. Concentration unit = ppb	Measured Concentration unit = ppb	Recovery %	Status		
Bifenazate	50.0	27.8	56%	PASS		
Bifenthrin	50.0	26.5	53%	PASS		
Cyfluthrin	50.0	25.7	51%	PASS		
Etoxazole	50.0	27.5	55%	PASS		
Imazalil	50.0	24.9	50%	PASS		
Imidacloprid	50.0	26.1	52%	PASS		
Myclobutanil	50.0	25.8	52%	PASS		
Spiromesifen	50.0	28.0	56%	PASS		
Trifloxystrobin	50.0	26.8	54%	PASS		

END OF REPORT