



420 Fortune Blvd
Milford, MA 01757

Sample ID: **128210**
Order No.: **44490**

Report Title: **Certificate of Analysis**
Revision: **1**
Report Date: **10/15/2024**



B. RMD INFO U4EA Farms, LLC 75 Green Street, Suite 3 Clinton, MA 01510 Manifest No: 0002517001 Date Received: 10/9/2024	C. SAMPLE IDENTIFICATION METRC Package ID: 1A40A030000D0FD000000007 Sample Name: Whoopie Pie Prod. Batch ID: n/a Source Pkg. ID: 1A40A030000D0FD000000002	D. PICTURE OF SAMPLE 
E. SAMPLE PROPERTIES Sample Size: 7g # of Servings: n/a Matrix: Plant Material Matrix Other: n/a Sample Condition: Unremarkable Retest: No Remediated: No Description: n/a	F. PRODUCT CHARACTERIZATION Product Stage: Finished Plant Material Product Class: Flower Other: n/a Product Type: Flower Retail Name: Whoopie Pie Grow Material: n/a Intended Route of Consumption: n/a Other: n/a Extraction Solvent: n/a Other: n/a	G. TEST TYPE RUN (CN) Cannabinoid Profile (TP) Terpene Profile (MY) Mycotoxin Test (HM) Heavy Metal Analysis (MB) Microbiology Test (PT) Pathogen Screen (PST) Pesticide Screen



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

Total Potency (CN)	Pesticides (PST)	Micro (MB)	Solvents (VOC)
22.0 wt%	PASS	PASS	Not Tested
Terpenes (TP)	Heavy Metals (HM)	Mycotoxins (MY)	Vitamin E Acetate (VEA)
1.6 wt%	PASS	PASS	Not Tested

THIS PRODUCT ☒ May be dispensed ☐ May be dispensed as INGESTION only ☐ May NOT be dispensed

LAB AUTHORIZATION SIGNATURE Andrew Aubin  Lab Director

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.

Terpene Analysis: The sample was analyzed for terpenes (WI-10-37) utilizing solvent extraction followed by Gas Chromatography (GC) utilizing flame ionization detection (FID). Chromatographic data were processed by quantitatively comparing the analytical peak areas against calibration curves prepared from certified reference standards.

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.

Terpene 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.

TABLE I: CANNABINOID PROFILE Analysis Date: 10/11/2024

Sample ID: 128210 By UPLC Lab SOP #: WI-10-17 & WI-10-17-01 Analyst: SD

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/g	LOD unit = ppm	LOQ unit = ppm
A128210	D9-THC	0.185	1.85	21.90	65.70
A128210	THCV	ND	ND	21.90	65.70
A128210	CBD	ND	ND	21.90	65.70
A128210	CBDV	ND	ND	21.90	65.70
A128210	CBG	0.0239	0.239	21.90	65.70
A128210	CBC	ND	ND	21.90	65.70
A128210	CBN	ND	ND	21.90	65.70
A128210	THCA	21.3	213	21.90	65.70
A128210	CBDA	0.0738	0.738	21.90	65.70
A128210	CBGA	0.398	3.98	21.90	65.70
A128210	CBDVA	ND	ND	21.90	65.70
A128210	D8-THC	ND	ND	21.90	65.70
A128210	exo-THC	ND	ND	21.90	65.70

Total THC 18.9 wt% 189
 Total CBD 0.0647 wt% 0.647
 Total Cannabinoid (TAC) 22.0 wt% 220
 CBD to THC Ratio 0 : 1

Measurements are based on sample as received.

There are no limits established by the Massachusetts Cannabis Control Commission for cannabinoid concentrations. Total THC and CBD values are based on the assumption that acidic cannabinoids have been decarboxylated, such that Total THC = (0.877 x THCA) + D9-THC and Total CBD = (0.877 x CBDA) + CBD. ND = None Detected above the Limits of Detection (LOD).

TABLE J: HEAVY METALS Analysis Date: 10/10/2024

Sample ID: 128210 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 ¹ unit = ppb	LOD unit = ppb	LOQ unit = ppb	Limits - All Use ²		Limits - Ingestion Only ²	
					Limits (ppb)	Test	Limits (ppb)	Test
128210	As	ND	25	50	200	PASS	1500	PASS
128210	Cd	ND	25	50	200	PASS	500	PASS
128210	Hg	65.0	25	50	100	PASS	1500	PASS
128210	Pb	97.0	25	50	500	PASS	1000	PASS

2) Testing limits established by the Massachusetts Cannabis Control Commission, 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 CONTAMINANTS					Analysis Date: 10/10/2024	
Sample ID: 128210 By MPN		Lab SOP #: WI-10-09			Analyst: SRD	
This sample was analyzed for microbiological contaminants using an automated Most Probable Number (MPN) methodology with cultured enrichments.						
Test ID	Analyte Symbol	Test Analysis	Result	Unit	Standard Limits unit = CFU/g	Limit Test
128210	AC	Total Aerobic Bacterial Count	=450	CFU/g	100,000 CFU/g	PASS
128210	CC	Total Coliform Bacterial Count	<100	CFU/g	1,000 CFU/g	PASS
128210	EB	Total Bile Tolerant Gram Negative Count	<100	CFU/g	1,000 CFU/g	PASS
128210	YM	Total Yeast & Mold	=9,300	CFU/g	10,000 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. All recorded Microbiological tests are within the established limits.

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

TABLE L: PATHOGENIC BACTERIA				Analysis Date: 10/11/2024	
Sample ID: 128210 By ELFA		Lab SOP #: WI-10-10		Analyst: SRD	
This sample was analyzed for pathogenic bacteria using an automated Enzyme Linked Fluorescent Assay (ELFA). Quality control checks are performed monthly by running both a positive and a negative control sample for each pathogen.					
Test ID	Analyte Symbol	Test Analysis	Result	Standard Limits	Limit Test
128210	ECPT	E. coli (O157)	Negative	Non Detected in 1g	PASS
128210	SPT	Salmonella	Negative	Non Detected in 1g	PASS

Note: All recorded pathogenic bacteria tests passed.

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

TABLE M: MYCOTOXINS						Analysis Date: 10/10/2024	
Sample ID: 128210 By IA/Fluorescence			Lab SOP #: WI-10-05			Analyst: CR	
This sample was analyzed for mycotoxins using an Immunoaffinity based assay (IA). Data was compared to readings from standard reference materials.							
Test ID	Analyte Symbol	Analyte	Result <i>unit = ppb</i>	LOD <i>unit = ppb</i>	LOQ <i>unit = ppb</i>	Standard Limits <i>unit = ppb</i>	Limit Test
128210	Afla	Total Aflatoxin	< LOD	2	4	< 20	PASS
128210	Ochra	Total Ochratoxin	< LOD	3	6	< 20	PASS

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

*Testing limits established by the Massachusetts Cannabis Control Commission, 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: 10/10/2024		
Sample ID: 128210 By LCMSMS		Lab SOP #: WI-10-11			Analyst: KEM		
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 <i>unit = ppb</i>	LOD <i>unit = ppb</i>	LOQ <i>unit = ppb</i>	Standard Limits <i>unit = ppb</i> <i>Test</i>		Method QA/QC Test
128210	Bifenazate	ND	5	10	10	PASS	MS/MSD
128210	Bifenthrin	ND	5	20	10	PASS	MS/MSD
128210	Cyfluthrin	ND	100	500	10	PASS	MS/MSD
128210	Etoxazole	ND	5	20	10	PASS	MS/MSD
128210	Imazalil	ND	50	100	10	PASS	MS/MSD
128210	Imidacloprid	ND	5	20	10	PASS	MS/MSD
128210	Myclobutanil	ND	5	20	10	PASS	MS/MSD
128210	Spiromesifen	ND	5	40	10	PASS	MS/MSD
128210	Trifloxystrobin	ND	5	20	10	PASS	MS/MSD

Note: All recorded Pesticide are within the established limits.

* Testing limits established by the Massachusetts Cannabis Control Commission, 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 limit of detection (LOD). Analytes marked with (*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample due to matrix interference.

TABLE P: TERPENE PROFILE					Analysis Date: 10/10/2024	
Sample ID: 128210 By GC-FID			Lab SOP #: WI-10-37		Analyst: ZDV	
This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.						
Test ID	Analyte	CAS Number	Concentration		LOD	LOQ
			unit = wt%	unit = ppm	unit = ppm	unit = ppm
128210-FID	isopulegol	89-79-2	<LOD	<LOD	5.00	10.00
128210-FID	menthol	89-78-1	<LOD	<LOD	5.00	10.00
128210-FID	linalool	78-70-6	0.151	1,510	5.00	10.00
128210-FID	caryophyllene oxide	1139-30-6	0.00690	69.0	5.00	10.00
128210-FID	guaiol	489-86-1	<LOD	<LOD	5.00	10.00
128210-FID	sabinene	3387-41-5	<LOD	<LOD	5.00	10.00
128210-FID	p-cymene	99-87-6	<LOD	<LOD	5.00	10.00
128210-FID	camphene	79-92-5	0.00703	70.3	5.00	10.00
128210-FID	eucalyptol	470-82-6	<LOD	<LOD	5.00	10.00
128210-FID	geraniol	106-24-1	<LOD	<LOD	5.00	10.00
128210-FID	terpinolene	586-62-9	<LOD	<LOD	5.00	10.00
128210-FID	alpha-bisabolol	23089-26-1	<LOD	<LOD	5.00	10.00
128210-FID	alpha-pinene	80-56-8	0.0265	265	5.00	10.00
128210-FID	alpha-terpinene	99-86-5	<LOD	<LOD	5.00	10.00
128210-FID	beta-caryophyllene	87-44-5	0.418	4,180	5.00	10.00
128210-FID	beta-pinene	127-91-3	0.0431	431	5.00	10.00
128210-FID	delta-3-carene	13466-78-9	<LOD	<LOD	5.00	10.00
128210-FID	L-fenchone	7787-20-4	<LOD	<LOD	5.00	10.00
128210-FID	beta-myrcene	123-35-3	0.292	2,920	5.00	10.00
128210-FID	alpha-phellandrene	99-83-2	<LOD	<LOD	5.00	10.00
128210-FID	alpha-ocimene	502-99-8	<LOD	<LOD	5.00	10.00
128210-FID	D-limonene	5989-27-5	0.270	2,700	5.00	10.00
128210-FID	gamma-terpinene	99-85-4	<LOD	<LOD	5.00	10.00
128210-FID	alpha-humulene	6753-98-6	0.270	2,700	5.00	10.00
128210-FID	cis-nerolidol	3790-78-1	<LOD	<LOD	5.00	10.00
128210-FID	trans-nerolidol	40716-66-3	0.00682	68.2	5.00	10.00
128210-FID	beta-ocimene	13877-91-3	0.0718	718	5.00	10.00

Total Terpene: 1.6 wt%

* Indicates semi-qualitative calculation based on recorded peak areas.

END OF REPORT