

120 York Street
Kennebunk, ME 04043
(207) 467-3478

NELSON ANALYTICAL LAB



ISO 17025:2017 Accreditation
ANAB Certificate Number: AT-2169
Maine CDC Accreditation MTF001
Office of Marijuana Policy MTF328

Report Date: 06 November 2023

Stoner & Co.:
414 Hill St. Biddeford ME , 04046:

Enclosed are the results of analytical testing performed on the following samples:

Laboratory ID	Sample Location	Date sampled	Date received
C23110102.01	1A40D0300003A99000005639	03-Nov-23 10:15	03-Nov-23 12:05

If you have any questions concerning this report, please feel free to contact the laboratory at 207-467-3478.

Lorri Maling
Laboratory Director



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Amount Received: 20.2g

This font is not yet supported

Date sampled : 11/03/2023

Collected by: J. Mellett

STONER & CO., LLC - GR849

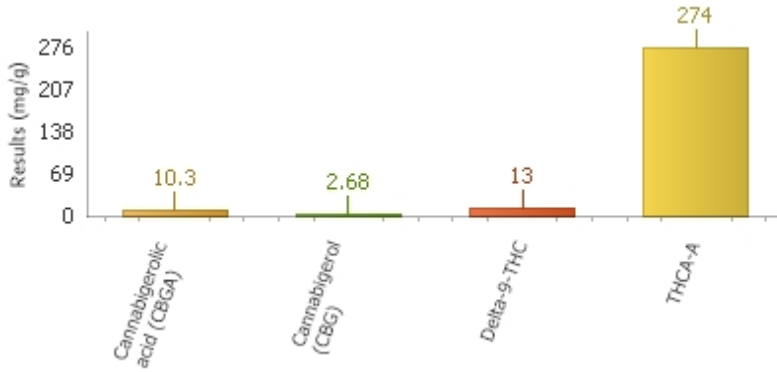
Reported Date: 11/06/2023

Flower - Bulk - Duchess of York

C23110102.01

Temp Received: 18.7

1A40D0300003A99000005639(Plant Material-Marijuana)



Cannabinoids by HPLC

Analyte	Result	Reporting Limit	Units	Q	Analyzed	Method	Analyst	Pass/Fail Limit	Test Remarks
Cannabidivarin (CBDV)	ND	0.1	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	
Cannabidiolic acid (CBDA)	ND	0.1	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	
Cannabigeronic acid (CBGA)	10.3	0.1	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	
Cannabigerol (CBG)	2.68	0.1	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	
Cannabidiol (CBD)	ND	0.1	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	
Tetrahydrocannabinarin (THCV)	ND	0.1	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	
Cannabinol (CBN)	ND	0.1	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	
Delta-9-THC	13.0	0.1	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	
Delta-8-THC	ND	0.2	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	
Cannabichromene (CBC)	ND	0.1	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	
THCA-A	274	0.1	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	

Total Cannabinoids by HPLC (Calculated)

Analyte	Result	Reporting Limit	Units	Q	Analyzed	Method	Analyst	Pass/Fail Limit	Test Remarks
CBD+CBDA- Calculated	ND	0.1	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	
Total CBD-(Max CBD) Calculated	ND	0.1	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	
THC+THCA- Calculated	287	0.1	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	
Total THC-(Max THC) Calculated	254	0.1	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	
Total THC-(Max THC+D8) Calculated	254	0.1	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	
Total Cannabinoids- Calculated	300	0.1	mg/g		11/03/2023 17:56	HPLC SOP-7	NRS	N/A	
Analysis preparation date	ND				11/03/2023 13:00	HPLC SOP-7	NRS	N/A	

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REPORT OF ANALYSIS

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Date sampled : 11/03/2023

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Microbiological Testing

Analyte	Result	Reporting Limit	Units	Q	Analyzed	Method	Analyst	Pass/Fail Limit	Test Remarks
Aerobic Plate Count	ND	100	cfu/g		11/05/2023 15:35	AOAC 990.12	MM	100000	Pass
Total Coliform	ND	100	cfu/g		11/04/2023 15:30	AOAC 991.14	MM	1000	Pass
E. coli	Pass	1	per gram	1	11/05/2023 13:50	USP 37 <2022>	MM	Pass	Pass
Salmonella	Pass	1	per gram	1	11/05/2023 13:50	AOAC 2014.01	MM	Pass	Pass
Enterobacteriaceae	ND	100	cfu/g		11/04/2023 15:30	AOAC 2003.01	MM	1000	Pass
Yeast	ND	100	cfu/g		11/06/2023 15:15	AOAC 2014.05	MM	N/A	
Mold	200	100	cfu/g		11/06/2023 15:15	AOAC 2014.05	MM	N/A	
Total Yeast and Mold	200	100	cfu/g		11/06/2023 15:15	AOAC 2014.05	MM	10000	Pass
Microbiological Preparation Time	N/A				11/03/2023 17:15	USP/AOAC	MM	N/A	

Visual Inspection

Analyte	Result	Reporting Limit	Units	Q	Analyzed	Method	Analyst	Pass/Fail Limit	Test Remarks
Visual Inspection	Pass		NA	1	11/03/2023 12:16	SOP54	RK	Pass	Pass

Water Activity

Analyte	Result	Reporting Limit	Units	Q	Analyzed	Method	Analyst	Pass/Fail Limit	Test Remarks
Water Activity	0.46	0.2	Aw	1	11/03/2023 12:30	ASTM 8196-18	BB	0.65	Pass

Metals by ICP MS

Analyte	Result	Reporting Limit	Units	Q	Analyzed	Method	Analyst	Pass/Fail Limit	Test Remarks
Metals preparation	ND				11/04/2023 09:15	EPA 200.8	LAM	N/A	
Arsenic	ND	100	ug/kg		11/04/2023 14:45	EPA 200.8	LAM	200	Pass
Cadmium	ND	100	ug/kg		11/04/2023 14:45	EPA 200.8	LAM	200	Pass
Lead	ND	100	ug/kg		11/04/2023 14:45	EPA 200.8	LAM	500	Pass
Mercury	ND	80	ug/kg		11/04/2023 14:45	EPA 200.8	LAM	100	Pass

pesticides by LCMSMS

Analyte	Result	Reporting Limit	Units	Q	Analyzed	Method	Analyst	Pass/Fail Limit	Test Remarks
Abamectin	ND	400	ug/kg		11/04/2023 14:21	SOP-69	LAM	500	Pass

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Amount Received: 20.2g
Collected by: J. Mellett
Flower - Bulk - Duches of York

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C23110102.01

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pesticides by LCMSMS

Analyte	Result	Reporting Limit	Units	Q	Analyzed	Method	Analyst	Pass/Fail Limit	Test Remarks
Acephate	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	400	Pass
Acequinocyl	ND	500	ug/kg		11/04/2023 14:21	SOP-69	LAM	2000	Pass
Acetamidrid	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Aldicarb	ND	200	ug/kg		11/04/2023 14:21	SOP-69	LAM	400	Pass
Azoxystrobin	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Bifenazate	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Bifenthrin	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Boscalid	ND	200	ug/kg		11/04/2023 14:21	SOP-69	LAM	400	Pass
Carbaryl	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Carbofuran	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Chlorantraniliprole	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Chlorfenapyr	ND	500	ug/kg		11/04/2023 14:21	SOP-69	LAM	1000	Pass
Chlorpyrifos	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Clofentezine	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Cyfluthrin	ND	500	ug/kg		11/04/2023 14:21	SOP-69	LAM	1000	Pass
Cypermethrin	ND	500	ug/kg		11/04/2023 14:21	SOP-69	LAM	1000	Pass
Daminozide	ND	400	ug/kg		11/04/2023 14:21	SOP-69	LAM	1000	Pass
DDVP (Dichlovos)	ND	400	ug/kg		11/04/2023 14:21	SOP-69	LAM	1000	Pass
Diazinon	ND	150	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Dimethoate	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Ethoprophos	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Etonfenprox	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	400	Pass
Etoxazole	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Fenoxycarb	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Fenpyroximate	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	400	Pass
Fipronil	ND	200	ug/kg		11/04/2023 14:21	SOP-69	LAM	400	Pass
Flonicamid	ND	200	ug/kg		11/04/2023 14:21	SOP-69	LAM	1000	Pass
Fludioxonil	ND	200	ug/kg		11/04/2023 14:21	SOP-69	LAM	400	Pass
Hexythiazox	ND	200	ug/kg		11/04/2023 14:21	SOP-69	LAM	1000	Pass
Imazalil	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Imidacloprid	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	400	Pass

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Flower - Bulk - Duches of York

C23110102.01

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1A40D0300003A99000005639(Plant Material-Marijuana)

pesticides by LCMSMS

<u>Analyte</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Q</u>	<u>Analyzed</u>	<u>Method</u>	<u>Analyst</u>	<u>Pass/Fail Limit</u>	<u>Test Remarks</u>
Kresoxim-methyl	ND	200	ug/kg		11/04/2023 14:21	SOP-69	LAM	400	Pass
Malathion	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Metalaxyl	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Methiocarb	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	400	Pass
Methomyl	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Methyl Parathion	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
MGK-264	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Myclobutanil	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Naled	ND	200	ug/kg		11/04/2023 14:21	SOP-69	LAM	1000	Pass
Oxamyl	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	400	Pass
Paclobutrazol	ND	200	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Permethrins (Cis and Trans)	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Phosmet	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Piperonylbutoxide	ND	500	ug/kg		11/04/2023 14:21	SOP-69	LAM	2000	Pass
Prallethrin	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
propiconazole	ND	200	ug/kg		11/04/2023 14:21	SOP-69	LAM	400	Pass
Propoxur	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Pyrethrins (Cumulative Residues)	ND	500	ug/kg		11/04/2023 14:21	SOP-69	LAM	1000	Pass
Pyridaben	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Spinosad	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Spiromesifen	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Spirotetramat	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Spiroxamine	ND	200	ug/kg		11/04/2023 14:21	SOP-69	LAM	400	Pass
Tebuconazole	ND	200	ug/kg		11/04/2023 14:21	SOP-69	LAM	400	Pass
Thiacloprid	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Thiamethoxam	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Trifloxystrobin	ND	100	ug/kg		11/04/2023 14:21	SOP-69	LAM	200	Pass
Pesticide Extraction Date	ND				11/03/2023 17:30	SOP-69	LAM	N/A	

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Notes and Definitions

Note: All sample results are based on samples as they are received. Not all potential/existing hazards were evaluated. Unless otherwise noted below, analyses were performed without significant modifications and QC met the quality standards outlined in the methods reported. For purposes of reporting the terms marijuana and cannabis are used interchangeably. The Pass/Fail column on the report references Maine Adult Use acceptance limits. The State of Maine does not require Medical Marijuana or Hemp to meet these acceptance limits currently.

Results for the Maine Adult Use program are entered into the Metrc system. Due to reporting requirements some results are entered in Metrc as Zero. This is not scientifically accurate. Please refer to the final pdf report for the accurate reporting information and reporting limits.

Heat activation of cannabis products converts THCA to THC and CBDA to CBD in a time and temperature dependent manner. This conversion is known as decarboxylation and results from the loss of CO₂ during heating.

Total THC (Max THC) = Delta 9 THC + (THCA x 0.877)- Calculation required for Maine Adult Use program

Total THC (Max THC+D8) = Delta 8 THC + Delta 9 THC + (THCA x 0.877)

Total CBD (Max CBD) = CBD + (CBDA x 0.877)

Nelson Analytical is accredited for testing by ISO/IEC 17025:2017 and certified by ME CDC for the following parameters only:

Cannabinoids: Cannabinol (CBN), Cannabidiol (CBD)*, Cannabidiolic Acid (CBDA)*, Cannabigerol (CBG), Cannabigerolic Acid (CBGA), Cannabichromene (CBC), delta-9-THC*, delta-8-THC, THCA-A*, Tetrahydrocannabinol (THCV), Cannabidiol (CBDV) by High Pressure Liquid Chromatography (HPLC). Internal SOP-1/SOP-7 Analysis of Cannabinoids *NOTE: ME CDC certification for CBD, CBDA, Delta 9 THC and THCA-A, Total THC and Total CBD. Edible samples for Maine Adult use may not exceed 10 mg/serving or 100 mg/package.

Homogeneity (Internal SOP-1/SOP-7 Analysis of Cannabinoids)- samples for edibles and concentrates must be within 15% for Maine Adult Use.

Visual Inspection - Foreign Material Testing (Internal SOP-24-Visual Inspection)

% Moisture (Loss on drying) (Internal SOP 59 - % Moisture)

Metals Preparation and Analysis: Arsenic, Cadmium, Lead and Mercury (SOP-17- ICP MS based on EPA 200.8)

Water Activity (SOP-53-Water Activity-based on ASTM D81918) For Maine Adult Use the water activity should be <0.65 for plant and <0.85 for edibles or other products.

Mycotoxins: Total Aflatoxin and Ochratoxin by ELISA - Internal SOP-4 Total Aflatoxin and Ochratoxin. For Maine Adult Use Total Mycotoxins are only evaluated after a yeast and mold failure. They must be 20 ppb or less for a passing result.

Yeast and Mold (based on AOAC Method 997.02/2014.05), Total Coliform and E. coli (based on AOAC Method 991.14) E. Coli P/A (based on AOAC 991.14 Modified with enrichment before plating), Aerobic Plate Count (based on AOAC Method 990.12), Enterobacteriaceae (based on OMA 2003.01), Salmonella (based on AOAC 2014.01) SOP-3-Microbiological analysis by Petri Film.

Microbial limits for Maine Adult Use are as follows for all but concentrate samples:

Yeast and Mold 10,000cfu/g or less, Total Aerobic Bacteria 100,000 cfu/g or less, Total Coliform 1000 cfu/g or less, Enterobacteriaceae 1000 cfu/g or less, E. coli and Salmonella must be negative per gram.

For concentrates the microbial limits are as follows:

Yeast and Mold 1000 cfu/g or less, Total Aerobic Bacteria 10,000 cfu/g or less, Total Coliform 100 cfu/g or less, Enterobacteriaceae 100 cfu/g or less, E. coli and Salmonella must be negative per gram

Residual Solvents: (SOP-63 by GC/MS Headspace) The acceptance limits are in mg/kg in () next to the compound: Acetone(5000), Acetonitrile(410), Butanes(5000), Ethanol(5000), Ethyl Acetate(5000), Ethyl Ether(5000), Heptanes(5000), Hexane(290), Isopropyl alcohol(5000), Methanol(3000), Pentane(5000), Propane(5000), Toluene(890), Total Xylenes(2170), 1,2 Dichloroethane(1), Benzene(1), Chloroform(1), Ethylene Oxide(1), Methylene Chloride(1), Trichloroethylene(1).

< or ND - Analyte result not detected above the method reporting limit.

All sample results are reported on an "as received" basis.

Edibles are reported in mg/serving. The serving size is defined by the customer for Adult Use testing.

If the serving size is not defined by the customer (for R&D or Medical testing), the number reported is based on the weight of one unit of the product or as defined on the customer label.

The mg/serving reported are based on weights of the serving size taken at the laboratory or supplied by the customer. The mg/package results reported are based on information supplied by the customer.

Edible conversion calculation: mg/g in serving x weight of serving = mg per serving

Mg/package conversion: mg/serving x servings per package = mg/package

Laboratory uncertainty is calculated and updated on a regular basis and will be reported with lab results as needed or requested.

Samples are extracted and analyzed on the same day unless otherwise noted.

Cannabinoids, Residual Solvents and Terpene Analysis are based on laboratory developed methods. All other test methods are based on established EPA, USP or FDA methods.

Matrix matched quality control check samples for marijuana are available for microbiological analysis in a hemp-based QC. Other matrix matched quality control samples for most matrices may be available for hemp but do not currently exist in marijuana. Due to this unavailability, even ISO/IEC validated methods cannot be fully verified for the efficiency and accuracy of the marijuana extraction and analysis in any current Maine Testing facility.

To convert mg/ml to a % percentage move the decimal place one to the left.

QUALIFIER DEFINITION

NELSON ANALYTICAL LAB

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REPORT OF ANALYSIS
Laboratory ID: C23110102

NH ELAP Accreditation #NH2018
Maine State Certification # ME00015
Maine Radon Certification # ME17500

Qualifier Definition

1	Passes Maine Adult Use
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Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples preserved and analyzed on the same day do not meet the method criteria. #-Sample(s) received at laboratory do not meet method specified temperature criteria. #L-Sample(s) received in lobby and it was unable to be verified if they were in a cooler or on ice at receipt.

Solid samples are reported on a dry weight basis unless noted otherwise.

Subcontract Laboratories: SUB1: Nelson Analytical Manchester (NH1005) ME-NH01005 SUB 2: (NH 2136) (ME-CT00007),SUB3: (NH2001) (ME00019), SUB 4: NH2073 SUB5: (NH2530) (ME FL00117), SUB7: EAI Analytical (NH 1007),SUB 8: ME00002 SUB9: (NH2516) (MA00100)