

Certificate of Analysis

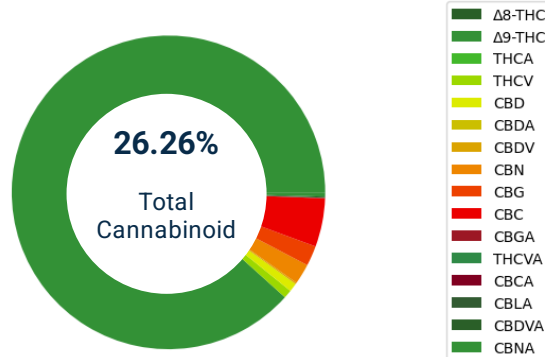


Client Name: Standard Farms
Address: 411 Susquehanna Street White Haven, PA 18661
Phone: 570-215-1853
License Number: GP2020-17

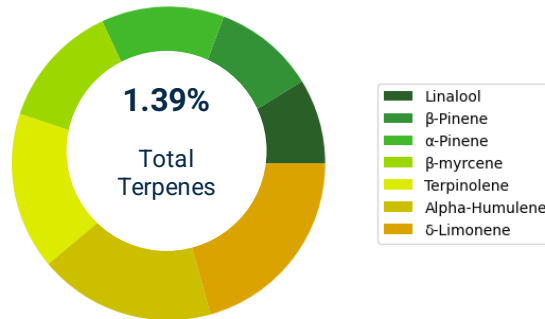


Sample ID: SAM-10302024-50741
Sample Name: Level PROTAB 100 Sativa [10pk] (1000mg)
Sample Matrix: Cannabis
Sample Type: Other
Sample Date: 10/30/2024
Sampling Method: CRL_PA_SOP_SampleCollection
Sampling Technician: Dave Bitting
Client Batch ID: PR.241030I
Client Sample Size: 3 g
Client State Tracking ID:
CRL Tracking ID: L7UQLEV9NI000002

Cannabinoid Distribution (%)



Terpene Distribution (%)



Results Summary

Potency 11/04/2024		TESTED
Terpenes 11/04/2024		TESTED
Microbial Impurities (Qualitative) 11/04/2024	✓	PASS
Microbial Impurities (Quantitative) 11/04/2024	✓	PASS
Heavy Metals 11/04/2024	✓	PASS
Residual Solvents 11/04/2024	✓	PASS
Mycotoxins 11/04/2024	✓	PASS
Foreign Material 11/04/2024	✓	PASS

The product represented has been tested by Coral Reef Labs using analytical instrumentation with proven and validated scientific methodologies compliant with PA Department of Health guidelines. The results in this COA apply only to the lot sampled, tested and described herein as tracked by State of Pennsylvania MJ Freeway contract system. Coral Reef Labs makes no claims as to the efficacy and/or safety of the product represented herein. This Certificate of Analysis may not be reproduced except in full without the express written consent of Coral Reef Labs. This Certificate of Analysis expires one year from Issue Date. The measurement uncertainty is not taken into account when making statements of conformity within this COA based on limitations established by the state of PA. The MU may be used to communicate the potential for false pass/non-passing and is available upon request. We monitor and evaluate our measurement uncertainty on an on going basis. A non-passing determination for one analyte will result in the non-passing of the entire method as stated on the cover sheet. LOD = Limit of Detection; LOQ = Limit of Quantitation; ND = Non Detection.

Potency

Date Analyzed: 10/30/2024

Instrument: Vanquish UHPLC UV/PDA

Date Completed: 11/04/2024

Method: CRL_PA_SOP_LCUV

Calibration Date: 10-30-2024

Analyst: Elena Caruso

Cannabinoid	Result (%)	Result (mg/g)	LOQ (mg/g)
Δ8-THC	ND	ND	1.00
Δ9-THC	23.27	232.75	1.00
THCA	ND	ND	1.00
THCV	0.22	2.25	1.00
CBD	0.23	2.32	1.00
CBDA	ND	ND	1.00
CBDV	<LOQ	<LOQ	1.00
CBN	0.55	5.55	1.00
CBG	0.55	5.46	1.00
CBC	1.32	13.17	1.00
CBGA	<LOQ	<LOQ	1.00
THCVA	ND	ND	1.00
CBCA	ND	ND	1.00
CBLA	ND	ND	1.00
CBDVA	<LOQ	<LOQ	1.00
CBNA	0.11	1.14	1.00
CBL	ND	ND	1.00
Total THC	23.27	232.75	-
Total CBD	0.23	2.32	-
Total Cannabinoids	26.26	262.64	-

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Terpenes

Date Analyzed: 10/31/2024
Instrument: ISQ-7000+

Date Completed: 11/04/2024
Method: CRL_PA_SOP_GCMS

Calibration Date: 10-31-2024
Analyst: Bhupendra Shah

Terpene	Result (%)	Result (mg/g)	Result (ug)	LOQ (ug)
α-Terpinene	ND	ND	ND	2
β-Caryophyllene	0.36	3.60	13	2
β-myrcene	0.13	1.33	5	2
β-Pinene	0.11	1.08	4	2
Alpha-Bisabolol	ND	ND	ND	2
Camphene	ND	ND	ND	2
3-Carene	ND	ND	ND	2
Caryophyllene Oxide	ND	ND	ND	2
Eucalyptol	ND	ND	ND	2
Geraniol	ND	ND	ND	2
Guaiol	ND	ND	ND	2
Alpha-Humulene	0.19	1.87	7	2
Isopulegol	ND	ND	ND	2
δ-Limonene	0.21	2.12	8	2
Linalool	0.09	0.90	3	2
Ocimene-1	ND	ND	ND	2
Ocimene-2	ND	ND	ND	2
P-Cymene	ND	ND	ND	2
α-Pinene	0.13	1.30	5	2
Terpinolene	0.17	1.66	6	2
Nerolidol-1	ND	ND	ND	2
Nerolidol-2	ND	ND	ND	2
γ-Terpinene	ND	ND	ND	2
α-Cedrene	ND	ND	ND	2
α-Phellandrene	ND	ND	ND	2
α-Terpineol	ND	ND	ND	2
(+)-Borneol	ND	ND	ND	2
Camphor	ND	ND	ND	2
Cedrol	ND	ND	ND	2
Fenchone	ND	ND	ND	2
Fenchyl	ND	ND	ND	2
Geranyl Acetate	ND	ND	ND	2
Hexahydrothymol	ND	ND	ND	2
Nerol	ND	ND	ND	2
Pulegone	ND	ND	ND	2
Sabinene	ND	ND	ND	2
Valencene	ND	ND	ND	2

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Microbial Impurities (Qualitative)

✓ PASS

Date Analyzed: 10/30/2024 **Date Completed:** 11/04/2024 **Calibration Date:** 10-30-2024
Instrument: qPCR/Culture Plating **Method:** CRL_PA_SOP_MICRO/CRL_PA_SOP_MICRO-CP **Analyst:** Joanna Candelieri

Microbials (Qualitative)	Result (CFU/g)	Limit (CFU/g)	Status
E.coli	ND	1	Pass
Salmonella	ND	1	Pass

Microbial Impurities (Quantitative)

✓ PASS

Date Analyzed: 10/30/2024 **Date Completed:** 11/04/2024 **Calibration Date:** 10-30-2024
Instrument: qPCR/Culture Plating **Method:** CRL_PA_SOP_MICRO/CRL_PA_SOP_MICRO-CP **Analyst:** Joanna Candelieri

Microbials (Quantitative)	Result (CFU/g)	Limit (CFU/g)	Status
Bile-Tolerant Gram-Negative Bacteria	ND	1000	Pass
Yeast & Mold	ND	10000	Pass
Aerobic Bacteria	ND	10000	Pass

Heavy Metals

✓ PASS

Date Analyzed: 10/30/2024 **Date Completed:** 11/04/2024 **Calibration Date:** 10-30-2024
Instrument: ICAP-RQ **Method:** CRL_PA_SOP_ICPMS **Analyst:** Wyatt Zimmerman

Heavy Metals	Result (ppm)	LOQ (ppm)	Limit (ppm)	Status
Arsenic	ND	0.400	0.400	Pass
Cadmium	ND	0.300	0.300	Pass
Lead	ND	1.000	1.000	Pass
Mercury	ND	0.200	0.200	Pass

Residual Solvents

✓ PASS

Date Analyzed: 10/31/2024 **Date Completed:** 11/04/2024 **Calibration Date:** 10-31-2024
Instrument: ISQ-7000+ **Method:** CRL_PA_SOP_GCMS **Analyst:** Bhupendra Shah

Residual Solvent	Result (ppm)	LOQ (ppm)	Limit (ppm)	Status
Ethanol	<LOQ	1000	5000	Pass
n-Butane	ND	1000	5000	Pass
n-Pentane	ND	-	-	ND

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Certificate of Analysis

Mycotoxins

✓ PASS

Date Analyzed: 10/31/2024
Instrument: Vanquish UHPLC and
 Quadrupole Orbitrap

Date Completed: 11/04/2024
Method: CRL_PA_SOP_LCMS

Calibration Date: 10-31-2024
Analyst: Young Mi Park

Mycotoxins	Result (ppb)	LOQ (ppb)	Limit (ppb)	Status
B1	ND	2.0	5.0	Pass
B2	ND	2.0	20.0	Pass
G1	ND	2.0	20.0	Pass
G2	ND	2.0	20.0	Pass
Ochratoxin A	ND	2.0	20.0	Pass
Total Aflatoxins	ND	2.0	20.0	Pass

Foreign Material

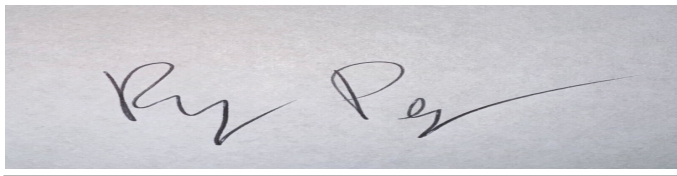
✓ PASS

Date Analyzed:
Instrument: Visual inspection

Date Completed: 11/04/2024
Method: CRL_PA_SOP_Homogenization

Analyst:

Foreign Materials	Status
Foreign Materials Analysis	Pass
Comments:	



Ryan Peppe
 Lab Manager
 11/04/2024

Cannabinoid conversion

$$\%Total_{THC} = (\%THC) + (\%THCA \times 0.877)$$

$$\%Total_{CBD} = (\%CBD) + (\%CBDA \times 0.877)$$

Concentration Conversions:

$$\% \text{ to } \frac{\mu g}{mg} = \frac{Results (\%)}{Sample Weight(g) \times 1000}$$

If any analyte of interest within a method evaluation as reported on the COA fails according to a limit set by the state regulators, then the entire evaluation shall be reported as a failure on the coversheet of the COA. If results are at or above the actions limits established, then the evaluation fails. If the result is below the action limit or is reported as "ND" (no detection), then it will be the sample passes this evaluation.

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