



Utah Department of Agriculture and Food
Division of Laboratory Services
 4451 South 2700 West
 Taylorsville, Utah 84129
 (801) 816-3840

CERTIFICATE OF ANALYSIS

Sample Information

| | | | |
|--------------------------|--------------------------------------|-----------------------|-------------------------|
| UDAF Lab # | HP23192-1 | Issue Date: | 07/13/2023 |
| Client: | PurHealth Labs | Client Email: | admin@purhealthlabs.com |
| Producer: | PurHealth Labs | Sample Type: | Liquid Suspension |
| Description: | 4500mg Maximum Strength 2oz Cinnamon | | |
| Batch/Lot Number: | 23190 | Date Received: | 07/11/2023 |
| Date Collected: | 07/07/2023 | Collected By: | Self-Submitted |




Notes:

Testing Summary

Status: PASS

| Analysis: | Testing Date: | Status: | Notes: |
|--------------|---------------|---------|--------|
| Cannabinoids | 07/13/2023 | PASS | |
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Approved By:  Date: 07/13/2023
 Brandon Forsyth, Ph.D
 State Chemist

The results reported herein pertain only to the indicated sample and may not be used as an endorsement of a product. The results are given under applicable provisions of the Utah Code and represent a true statement of the outcomes of the analyses conducted on the sample received by the laboratory. This report may not be reproduced, except in its entirety. © 2023 All Rights Reserved.



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CERTIFICATE OF ANALYSIS

Cannabinoid Analysis

Status: PASS

| | |
|---------------------------------|--|
| Sample ID: HP23192-1 | Description: 4500mg Maximum Strength 2oz Cinnamon |
| Testing Date: 07/13/2023 | Reviewed By: Cameron Cheyne |

Method: ACL.AM.003 Analysis performed using High-Performance Liquid Chromatography (HPLC-DAD)

| Analyte | Abbreviation | CAS Number | % (w/w) | mg/g |
|---|---------------------------|-------------------------|---------|------|
| Δ 9-Tetrahydrocannabinidiol | Δ 9-THC | 1972-08-03 | ND | ND |
| Δ 8-Tetrahydrocannabinidiol | Δ 8-THC | 5957-75-5 | ND | ND |
| Δ 9-Tetrahydrocannabinolic acid | THCA | 23978-85-0 | ND | ND |
| Δ 9-Tetrahydrocannabivarin | THCV | 31262-37-0 | ND | ND |
| Cannabidiol | CBD | 13956-29-1 | 0.41% | 4.1 |
| Cannabidiolic acid | CBDA | 1244-58-2 | ND | ND |
| Cannabidivarin | CBDV | 24274-48-4 | 0.09% | 0.9 |
| Cannabinol | CBN | 521-35-7 | ND | ND |
| Cannabigerol | CBG | 25654-31-3 | <LOQ | <LOQ |
| Cannabichromene | CBC | 20675-51-8 | ND | ND |
| Cannabigerolic acid | CBGA | 25555-57-1 | ND | ND |
| Cannabichromenic acid | CBCA | 20408-52-0 | ND | ND |
| 9(R+S)- Δ 6a,10a-Tetrahydrocannabinidiol | Δ 3-THC | 95720-01-07, 95720-02-8 | ND | ND |
| (6aR,9R)- Δ 10-Tetrahydrocannabinidiol | (6aR,9R)- Δ 10-THC | 95543-62-7 | ND | ND |
| (6aR,9S)- Δ 10-Tetrahydrocannabinidiol | (6aR,9S)- Δ 10-THC | 95588-87-7 | ND | ND |
| Total Cannabinoids | | | 0.51% | 5.1 |
| Total THC | | | 0.00% | 0.0 |
| Total CBD | | | 0.41% | 4.1 |

Unknown Cannabinoid Peak Area: 3.6%

Status: PASS

Notes:

Total Cannabinoids is calculated as the direct sum of each of the cannabinoid values.
Total THC is calculated as Δ 9-THC + (THCA x 0.877).
Total CBD is calculated as CBD + (CBDA x 0.877).

ND = Not Detected, NQ = Not Quantifiable, NT = Not Tested, <LOQ = Below the limit of quantification

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Certificate of Analysis

Client Information

PurHealth RX
14663 S. Heritage Crest Way
Bluffdale, UT 84065
USA
801.903.7789

Sample Information

ARL ID: 686439
Date Received: 7/6/2023
Date Tested: 7/10/2023
Description: 4500 mg Med 7 Metabolic Support 2oz Cinnamon
Lot#: 23190

Results

| Analysis | Method | †MDL / LOQ | Specification | Results | UOM | Lab ID |
|---|---|------------|---------------|---------------|-----------|--------|
| <u>Complete Micro Profile Pseudomonas</u> | USP <2021>, USP <2022>, AOAC 991.14, USP <62> | | | | | 1 |
| Total Plate Count | USP <2021> | 10 | Record Only | None Detected | cfu's/g | 1 |
| Coliforms | AOAC 991.14 | 10 | Record Only | None Detected | cfu's/g | 1 |
| E. coli | USP <2022> | Absent | Record Only | Absent | cfu's/10g | 1 |
| Staphylococcus aureus | USP <2022> | Absent | Record Only | Absent | cfu's/10g | 1 |
| Salmonella | USP <2022> | Absent | Record Only | Absent | cfu's/10g | 1 |
| Pseudomonas aeruginosa | USP <62> | Absent | Record Only | Absent | cfu's/g | 1 |
| Yeast | USP <2021> | 10 | Record Only | None Detected | cfu's/g | 1 |
| Mold | USP <2021> | 10 | Record Only | None Detected | cfu's/g | 1 |

†Method Detection Limit (MDL):

In microbiological testing, this is the minimum level of growth that can be detected with confidence. If a result is reported as "None Detected", it means any visible growth was below this limit.

†Limit of Quantitation (LOQ):

In analytical chemistry testing, this is the minimum level of the desired analyte that can be quantified with confidence. If a result is reported as less than LOQ, it means any detected amount was too small to report an exact number.

Under accreditation number 77504, ARL is an ISO/IEC 17025:2017 Accredited Laboratory. Uncertainty data for ISO-scoped methods is available upon request. Certificate and scope are also available upon request.

HM: Heavy Metal Analysis (W7-10-13)

Analyst: JFD

Test Date: 3/29/2018

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.

25691-HMJ

| Symbol | Metal | Conc. ¹ | Units | MDL | Use Limits ² | | Units | Status |
|--------|---------|--------------------|-------|-----|-------------------------|-----------|-------|--------|
| | | | | | All | Ingestion | | |
| As | Arsenic | ND | µg/kg | 4 | 200 | 1500 | µg/kg | PASS |
| Cd | Cadmium | 3 | µg/kg | 1 | 200 | 500 | µg/kg | PASS |
| Hg | Mercury | 3 | µg/kg | 2 | 100 | 1500 | µg/kg | PASS |
| Pb | Lead | 37 | µg/kg | 2 | 500 | 1000 | µg/kg | PASS |

1) ND - None detected to Lower Limits of Detection (LLD)

2) MA Dept. of Public Health: Protocol for MMJ and MJPS, Exhibit 4(a) for all products.

3) USP exposure limits based on daily oral dosing of 1g of concentrate for a 110 lb person.

MB1: Microbiological Contaminants (W7-10-09)

Analyst: Alyson

Test Date: 3/29/2018

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.

25691-MPP

| Symbol | Analysis | Results | Units | Limits* | Status |
|--------|---|---------|-------|--------------|--------|
| AC | Total Aerobic Bacterial Count | <100 | CFU/g | 10,000 CFU/g | PASS |
| CC | Total Coliform Bacterial Count | <100 | CFU/g | 100 CFU/g | PASS |
| EB | Total Bile Tolerant Gram Negative Count | <100 | CFU/g | 100 CFU/g | PASS |
| YM | Total Yeast & Mold | <100 | CFU/g | 1,000 CFU/g | PASS |

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

MB2: Pathogenic Bacterial Contaminants (W7-10-10)

Analyst: mac

Test Date: 3/29/2018

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.

25691-LP2

| Test ID | Analysis | Results | Units | Limits* | Status |
|------------|----------------|----------|-------|--------------|--------|
| 25691-ECPT | E. coli (O157) | Negative | NA | Non Detected | PASS |
| 25691-SPT | Salmonella | Negative | NA | Non Detected | PASS |

Note: All recorded pathogenic bacteria tests passed.

PST: Pesticide Analysis [W7-10-11]

Analyst: KSB

Test Date: 3/29/2018

The client 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)

25691-251

| Analyte | CAS | Result | Units | LLD | Limits (ppb) | Status |
|--------------------|-------------|--------|-------|-----|--------------|--------|
| Abamectin | 71751-41-2 | ND | ppb | 0.2 | 10 | PASS |
| Azoxystrobin | 131860-33-8 | ND | ppb | 0.1 | 10 | PASS |
| Bifenazate | 149877-41-8 | ND | ppb | 0.1 | 10 | PASS |
| Bifenthrin | 82657-04-3 | ND | ppb | 0.2 | 10 | PASS |
| Cyfluthrin | 68359-37-5 | ND | ppb | 0.5 | 10 | |
| Daminozide | 1596-84-5 | ND | ppb | 10 | 10 | PASS |
| Dichlorvos | 62-73-7 | ND | ppb | 3 | 10 | |
| Etoxazole | 153233-91-1 | ND | ppb | 0.1 | 10 | PASS |
| Fenoxycarb | 72490-01-8 | ND | ppb | 0.1 | 10 | PASS |
| Imazalil | 35554-44-0 | ND | ppb | 0.1 | 10 | PASS |
| Imidacloprid | 138261-41-3 | ND | ppb | 0.1 | 10 | PASS |
| Myclobutanil | 88671-89-0 | ND | ppb | 0.1 | 10 | PASS |
| Paclobutrazol | 76738-62-0 | ND | ppb | 0.1 | 10 | PASS |
| Piperonyl butoxide | 51-03-6 | ND | ppb | 0.1 | 10 | PASS |
| Pyrethrin | 8003-34-7 | ND | ppb | 0.1 | 10 | PASS |
| Spinosad | 168316-95-8 | ND | ppb | 0.1 | 10 | PASS |
| Spiromesifen | 283594-90-1 | ND | ppb | 0.1 | 10 | PASS |
| Spirotetramat | 203313-25-1 | ND | ppb | 0.1 | 10 | PASS |
| Trifloxystrobin | 141517-21-7 | ND | ppb | 0.1 | 10 | 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.

VOC: Analysis of Volatile Organic Compounds (B-1-10-07)

Analyst: CJH

Test Date: 3/29/2018

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations.

25691-1%

| Compound | CAS | Amount ¹ | Limit ² | Status |
|--------------------|----------|---------------------|--------------------|--------|
| Propane | 74-98-6 | ND | N/A | - |
| Butane | 106-97-8 | ND | 5,000 ppm | PASS |
| Methanol | 67-56-1 | ND | 3,000 ppm | PASS |
| Ethanol | 64-17-5 | ND | 5,000 ppm | PASS |
| 2,2-dimethylbutane | | ND | N/A | - |
| Acetone | 67-64-1 | ND | 5,000 ppm | PASS |
| Isopropanol | 67-63-0 | ND | 5,000 ppm | PASS |
| 2,3-dimethylbutane | 79-29-8 | ND | N/A | - |
| 3-methylpentane | 96-14-0 | ND | N/A | - |
| Hexane | 110-54-3 | ND | 290 ppm | PASS |
| 1-propanol | 71-23-8 | ND | 5,000 ppm | PASS |
| Toluene | 108-88-3 | ND | 890 ppm | PASS |

1) ND = None detected above 5 ppm.

2) In ppm, based on USP recommended limits for residual solvents, adopted by the Massachusetts Department of Public Health on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

END OF REPORT