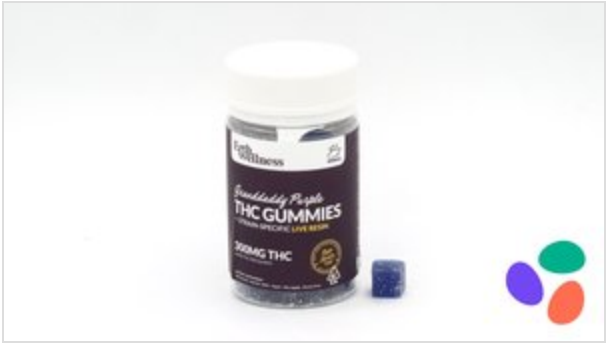
**CERTIFICATE OF ANALYSIS**
HEMP QUALITY ASSURANCE TEST

Sample Name:

# Erth Wellness - Grandaddy Purple

Infused, Hemp Infused

Date Issued:
02/26/2024




(https://sclaboratories.s3.us-west-1.amazonaws.com/sample_photos/2402

Share | Catalog View (/erth-llc/)

Serving Size:
3.5 grams

## Sample Details

**Sample ID:** 240215M014

**Batch Number:**
Show More

## Cultivator / Manufacturer

Show Details

## Distributor / Tested For

Show Details

## Share

Easily share a link to this results page with your friends, followers, or business partners.

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## Cannabinoid Analysis - Summary

View Full Results

**Total THC:** **303.765 mg/unit**

**Total CBD:** **Not Detected**

**Sum of Cannabinoids:** **327.60 mg/unit**

**Total Cannabinoids:** **327.60 mg/unit**

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:
Total THC = $\Delta^9$-THC + (THCa (0.877))
Total CBD = CBD + (CBDa (0.877))

Sum of Cannabinoids = $\Delta^9$-THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + $\Delta^8$-THC + CBL + CBN

Total Cannabinoids = ($\Delta^9$-THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBDV+0.877*CBDVa) + $\Delta^8$-THC + CBL + CBN

Why are Sum of Cannabinoids and Total Cannabinoids calculated separately?

## Terpenoid Analysis - Summary | 39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: **<LOQ**

View Full Results

1 Myrcene (<LOQ) 2 Limonene (<LOQ)

## Safety Analysis - Summary

View Full Results

Pesticides: **Pass**

Residual Solvents: **Pass**

Heavy Metals: **Pass**

Microbiology (PCR): **Pass**

Microbiology (Plating): **Pass**

## View Complete Test Results:

Collapse All

### Cannabinoid Analysis **Tested**

Show Le

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

**Method:** QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

### Summary

Total THC:

**303.765 mg/unit**

($\Delta^9$-THC+0.877*THCa)

**Total CBD:**

## Not Detected

(CBD+0.877*CBDa)

**Total Cannabinoids:**

## 327.60 mg/unit

**Total CBG:** ND
Total CBG (CBG+0.877*CBGa)

**Total THCV:** ND
Total THCV (THCV+0.877*THCVa)

**Total CBC:** ND
Total CBC (CBC+0.877*CBCa)

**Total CBDV:** ND
Total CBDV (CBDV+0.877*CBDVa)

## Learn more

The cannabis plant contains dozens of active compounds called cannabinoids (https://www.sclabs.com/cannabinoids/). These compounds are the primary contributors to the psychoactive effects of cannabis.

Cannabinoid testing (https://www.sclabs.com/cannabis/) determines the potency of a sample to aid in dosage considerations.

## Cannabinoid Test Results | 02/16/2024

Result Views

Table Pie Chart

Filter by:

Swipe left on table to see additional columns

| Compound | LOD/LOQ (mg/g) | Measurement Uncertainty (mg/g) | Result (mg/g) | Result (%) |
|---|---|---|---|---|
| **Δ9 Tetrahydrocannabinol (Δ9THC)** | 0.002 / 0.014 | ±0.1588 | **2.893** | **0.2893** |
| **∆8 Tetrahydrocannabinol (Δ8THC)** | 0.01 / 0.02 | ±0.011 | **0.23** | **0.023** |
| **Cannabinol (CBN)** | 0.001 / 0.007 | N/A | **<LOQ** | **<LOQ** |
| **Cannabichromene (CBC)** | 0.003 / 0.010 | N/A | **ND** | **ND** |
| **Cannabidiol (CBD)** | 0.004 / 0.011 | N/A | **ND** | **ND** |
| **Cannabigerol (CBG)** | 0.002 / 0.006 | N/A | **ND** | **ND** |
| **Cannabicyclol (CBL)** | 0.003 / 0.010 | N/A | **ND** | **ND** |
| **Cannabichromenic Acid (CBCa)** | 0.001 / 0.015 | N/A | **ND** | **ND** |
| **Cannabidivarin (CBDV)** | 0.002 / 0.012 | N/A | **ND** | **ND** |
| **Cannabidiolic Acid (CBDa)** | 0.001 / 0.026 | N/A | **ND** | **ND** |
| **Cannabigerolic Acid (CBGa)** | 0.002 / 0.007 | N/A | **ND** | **ND** |
| **Tetrahydrocannabivarin (THCV)** | 0.002 / 0.012 | N/A | **ND** | **ND** |
| **SUM OF CANNABINOIDS** | | | **3.12 mg/g** | **0.312%** |

| Compound | LOD/LOQ (mg/g) | Measurement Uncertainty (mg/g) | Result (mg/g) | Result (%) |
|---|---|---|---|---|
| **Tetrahydrocannabinolic Acid (THCa)** | 0.001 / 0.005 | N/A | **ND** | **ND** |
| **Cannabidivarinic Acid (CBDVa)** | 0.001 / 0.018 | N/A | **ND** | **ND** |
| **Tetrahydrocannabivarinic Acid (THCVa)** | 0.002 / 0.019 | N/A | **ND** | **ND** |
| **SUM OF CANNABINOIDS** | | | **3.12 mg/g** | **0.312%** |

## Unit Mass: 105 GRAMS / Serving Size: 3.5 GRAMS

Swipe left on table to see additional columns

| | |
|---|---|
| **$\Delta^9$-THC per Unit** | **303.765 mg/unit** |
| **$\Delta^9$-THC per Serving** | **10.126 mg/serving** |
| **Total THC per Unit** | **303.765 mg/unit** |
| **Total THC Per Serving** | **10.126 mg/serving** |
| **CBD per Unit** | **ND** |
| **CBD per Serving** | **ND** |
| **Total CBD per Unit** | **ND** |
| **Total CBD per Serving** | **ND** |
| **Sum of Cannabinoids per Unit** | **327.60 mg/unit** |

| | |
|---|---|
| **Sum of Cannabinoids per Serving** | **10.92 mg/serving** |
| **Total Cannabinoids per Unit** | **327.60 mg/unit** |
| **Total Cannabinoids per Serving** | **10.92 mg/serving** |

## Terpenoid Analysis **Tested**

Show Le

Terpene analysis utilizing gas chromatography-flame ionization detection (GC-FID).

**Method:** QSP 1192 - Analysis of Terpenoids by GC-FID

### Summary

**Total Terpenoids (mg/g):**
**<LOQ**

**Total Terpenoids (%):**
**<LOQ**

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### Dominant Terpenoids

Below are this sample's 3 most abundant terpenoids by volume.

1 Myrcene
<LOQ

2 Limonene
<LOQ

## Learn more

Terpenoid analysis (https://www.sclabs.com/terpene-analysis/) is crucial for differentiating between strains of cannabis, as terpenoids (https://www.sclabs.com/terpene/) have a major influence on the medical and psychological effects of a plant. The relationship between cannabinoids and terpeneoids is known as the "entourage effect."

## Terpenoid Test Results | 02/21/2024

Result Views

Table Bar Graph

Filter by:

Swipe left on table to see additional columns

| Compound | LOD/LOQ (mg/g) | Measurement Uncertainty (mg/g) | Result (mg/g) | Result (%) |
|---|---|---|---|---|
| **Myrcene** | 0.008 / 0.025 | N/A | **<LOQ** | **<LOQ** |
| **Limonene** | 0.005 / 0.016 | N/A | **<LOQ** | **<LOQ** |
| **Nerol** | 0.003 / 0.011 | N/A | **ND** | **ND** |
| **Cedrol** | 0.008 / 0.027 | N/A | **ND** | **ND** |
| **Guaiol** | 0.009 / 0.030 | N/A | **ND** | **ND** |
| **Borneol** | 0.005 / 0.016 | N/A | **ND** | **ND** |
| **Camphor** | 0.006 / 0.019 | N/A | **ND** | **ND** |
| **Fenchol** | 0.010 / 0.034 | N/A | **ND** | **ND** |
| **Menthol** | 0.008 / 0.025 | N/A | **ND** | **ND** |
| **TOTAL** | | | **<LOQ** | **<LOQ** |

| Compound | LOD/LOQ (mg/g) | Measurement Uncertainty (mg/g) | Result (mg/g) | Result (%) |
|---|---|---|---|---|
| **Camphene** | 0.005 / 0.015 | N/A | **ND** | **ND** |
| **Fenchone** | 0.009 / 0.028 | N/A | **ND** | **ND** |
| **Geraniol** | 0.002 / 0.007 | N/A | **ND** | **ND** |
| **Linalool** | 0.009 / 0.032 | N/A | **ND** | **ND** |
| **Pulegone** | 0.003 / 0.011 | N/A | **ND** | **ND** |
| **Sabinene** | 0.004 / 0.014 | N/A | **ND** | **ND** |
| **p-Cymene** | 0.005 / 0.016 | N/A | **ND** | **ND** |
| **Nerolidol** | 0.006 / 0.019 | N/A | **ND** | **ND** |
| **Terpineol** | 0.009 / 0.031 | N/A | **ND** | **ND** |
| **Valencene** | 0.009 / 0.030 | N/A | **ND** | **ND** |
| **Eucalyptol** | 0.006 / 0.018 | N/A | **ND** | **ND** |
| **Isoborneol** | 0.004 / 0.012 | N/A | **ND** | **ND** |
| **Isopulegol** | 0.005 / 0.016 | N/A | **ND** | **ND** |
| **Citronellol** | 0.003 / 0.010 | N/A | **ND** | **ND** |
| **Terpinolene** | 0.008 / 0.026 | N/A | **ND** | **ND** |
| **β-Pinene** | 0.004 / 0.014 | N/A | **ND** | **ND** |
| **α-Pinene** | 0.005 / 0.017 | N/A | **ND** | **ND** |
| **β-Ocimene** | 0.006 / 0.020 | N/A | **ND** | **ND** |
| **TOTAL** | | | **<LOQ** | **<LOQ** |

| Compound | LOD/LOQ (mg/g) | Measurement Uncertainty (mg/g) | Result (mg/g) | Result (%) |
|---|---|---|---|---|
| **$\Delta^3$-Carene** | 0.005 / 0.018 | N/A | **ND** | **ND** |
| **α-Cedrene** | 0.005 / 0.016 | N/A | **ND** | **ND** |
| **α-Humulene** | 0.009 / 0.029 | N/A | **ND** | **ND** |
| **Geranyl Acetate** | 0.004 / 0.014 | N/A | **ND** | **ND** |
| **α-Bisabolol** | 0.008 / 0.026 | N/A | **ND** | **ND** |
| **α-Terpinene** | 0.005 / 0.017 | N/A | **ND** | **ND** |
| **γ-Terpinene** | 0.006 / 0.018 | N/A | **ND** | **ND** |
| **Sabinene Hydrate** | 0.006 / 0.022 | N/A | **ND** | **ND** |
| **α-Phellandrene** | 0.006 / 0.020 | N/A | **ND** | **ND** |
| **β-Caryophyllene** | 0.004 / 0.012 | N/A | **ND** | **ND** |
| **Caryophyllene Oxide** | 0.010 / 0.033 | N/A | **ND** | **ND** |
| **trans-β-Farnesene** | 0.008 / 0.025 | N/A | **ND** | **ND** |
| **TOTAL** | | | **<LOQ** | **<LOQ** |

## Pesticide Analysis Pass

Show Le

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

*GC-MS utilized where indicated.

**Method:** QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

Exclusions[1]: See Notes section at bottom.

## Pesticide Test Results | 02/26/2024 | PASS

Filter by:

Swipe left on table to see additional columns

| Compound | LOD/LOQ (µg/g) | Action Limit (µg/g) | Measurement Uncertainty (µg/g) | Result (µg/g) | Result |
|---|---|---|---|---|---|
| **Abamectin** | 0.03 / 0.10 | 0.3 | N/A | **ND** | **Pass** |
| **Azoxystrobin** | 0.02 / 0.07 | 40 | N/A | **ND** | **Pass** |
| **Bifenazate** | 0.01 / 0.04 | 5 | N/A | **ND** | **Pass** |
| **Bifenthrin** | 0.02 / 0.05 | 0.5 | N/A | **ND** | **Pass** |
| **Boscalid** | 0.03 / 0.09 | 10 | N/A | **ND** | **Pass** |
| **Chlorpyrifos** | 0.02 / 0.06 | ≥ LOD | N/A | **ND** | **Pass** |
| **Cypermethrin** | 0.11 / 0.32 | 1 | N/A | **ND** | **Pass** |
| **Etoxazole** | 0.02 / 0.06 | 1.5 | N/A | **ND** | **Pass** |

| Compound | LOD/LOQ (µg/g) | Action Limit (µg/g) | Measurement Uncertainty (µg/g) | Result (µg/g) | Result |
|---|---|---|---|---|---|
| **Hexythiazox** | 0.02 / 0.07 | 2 | N/A | **ND** | **Pass** |
| **Imidacloprid** | 0.04 / 0.11 | 3 | N/A | **ND** | **Pass** |
| **Malathion** | 0.03 / 0.09 | 5 | N/A | **ND** | **Pass** |
| **Myclobutanil** | 0.03 / 0.09 | 9 | N/A | **ND** | **Pass** |
| **Permethrin** | 0.04 / 0.12 | 20 | N/A | **ND** | **Pass** |
| **Piperonyl Butoxide** | 0.02 / 0.07 | 8 | N/A | **ND** | **Pass** |
| **Propiconazole** | 0.02 / 0.07 | 20 | N/A | **ND** | **Pass** |
| **Spiromesifen** | 0.02 / 0.05 | 12 | N/A | **ND** | **Pass** |
| **Tebuconazole** | 0.02 / 0.07 | 2 | N/A | **ND** | **Pass** |
| **Trifloxystrobin** | 0.03 / 0.08 | 30 | N/A | **ND** | **Pass** |

## Residual Solvents Analysis Pass

Show Le

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

**Method:** QSP 1204 - Analysis of Residual Solvents by GC-MS

Exclusions[2]: See Notes section at bottom.

## Residual Solvents Test Results | 02/23/2024 | PASS

Filter by:

Swipe left on table to see additional columns

| Compound | LOD/LOQ (µg/g) | Action Limit (µg/g) | Measurement Uncertainty (µg/g) | Result (µg/g) | Result |
|---|---|---|---|---|---|
| **1,2-Dichloroethane** | 0.05 / 0.1 | 1 | N/A | **ND** | **Pass** |
| **Benzene** | 0.03 / 0.09 | 1 | N/A | **ND** | **Pass** |
| **Chloroform** | 0.1 / 0.2 | 1 | N/A | **ND** | **Pass** |
| **Dichloromethane (Methylene Chloride)** | 0.3 / 0.9 | 1 | N/A | **ND** | **Pass** |
| **Ethylene Oxide** | 0.3 / 0.8 | 1 | N/A | **ND** | **Pass** |
| **Trichloroethylene** | 0.1 / 0.3 | 1 | N/A | **ND** | **Pass** |
| **2-Propanol (Isopropyl Alcohol)** | 10 / 40 | 5000 | N/A | **ND** | **Pass** |
| **Acetone** | 20 / 50 | 5000 | N/A | **ND** | **Pass** |
| **Acetonitrile** | 2 / 7 | 410 | N/A | **ND** | **Pass** |
| **Ethanol** | 20 / 50 | 5000 | N/A | **ND** | **Pass** |

| Compound | LOD/LOQ (µg/g) | Action Limit (µg/g) | Measurement Uncertainty (µg/g) | Result (µg/g) | Result |
|---|---|---|---|---|---|
| **Ethyl Acetate** | 20 / 60 | 5000 | N/A | **ND** | **Pass** |
| **Ethyl Ether** | 20 / 50 | 5000 | N/A | **ND** | **Pass** |
| **Methanol** | 50 / 200 | 3000 | N/A | **ND** | **Pass** |
| **n-Butane** | 10 / 50 | 5000 | N/A | **ND** | **Pass** |
| **n-Heptane** | 20 / 60 | 5000 | N/A | **ND** | **Pass** |
| **n-Hexane** | 2 / 5 | 290 | N/A | **ND** | **Pass** |
| **n-Pentane** | 20 / 50 | 5000 | N/A | **ND** | **Pass** |
| **Propane** | 10 / 20 | 5000 | N/A | **ND** | **Pass** |
| **Toluene** | 7 / 21 | 890 | N/A | **ND** | **Pass** |

## Heavy Metals Analysis Pass

Show Le

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

**Method:** QSP 1160 - Analysis of Heavy Metals by ICP-MS

### Heavy Metals Test Results | 02/23/2024 | PASS

Filter by:

Swipe left on table to see additional columns

| Compound | LOD/LOQ (µg/g) | Action Limit (µg/g) | Measurement Uncertainty (µg/g) | Result (µg/g) | Result |
|---|---|---|---|---|---|
| **Arsenic** | 0.02 / 0.1 | 0.42 | N/A | **ND** | **Pass** |
| **Cadmium** | 0.02 / 0.05 | 0.27 | N/A | **ND** | **Pass** |
| **Lead** | 0.04 / 0.1 | 0.5 | N/A | **<LOQ** | **Pass** |
| **Mercury** | 0.002 / 0.01 | 0.4 | N/A | **ND** | **Pass** |

## Microbiology Analysis Pass

Show Le

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants. And Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

**Method:** QSP 1221 - Analysis of Microbiological Contaminants and QSP 6794 - Plating with 3M™ Petrifilm™

### Microbiology Test Results (PCR) | 02/23/2024 | PASS

Filter by:

Swipe left on table to see additional columns

| Compound | Action Limit | Result (cfu/g) | Result |
|---|---|---|---|
| ***Salmonella* spp.** | Not Detected in 1g | **ND** | **Pass** |

| Compound | Action Limit | Result (cfu/g) | Result |
|---|---|---|---|
| ***Staphylococcus aureus*** | Not Detected in 1g | **ND** | **Pass** |
| **Bile-Tolerant Gram-Negative Bacteria** | 100 | **ND** | **Pass** |
| **Shiga toxin-producing *Escherichia coli*** | Not Detected in 1g | **ND** | **Pass** |

## Microbiology Test Results (PLATING) | 02/23/2024 | PASS

Filter by:

Swipe left on table to see additional columns

| Compound | Action Limit (cfu/g) | Result (cfu/g) | Result |
|---|---|---|---|
| **Total Yeast and Mold** | 10 | **ND** | **Pass** |
| **Total Aerobic Bacteria** | 100 | **ND** | **Pass** |

## Notes

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**COA Notes:**

CoA amended to reflect requested assays.

**Exclusions:**

1. Sample Certification: California Code of Regulation Title 4 Division 19

2. Sample Certification: California Code of Regulation Title 4 Division 19

**COA ID: 240215M014-002**

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

**Sample Certification:** Action Limits used in this report are a compilation of guidance from state regulatory agencies in all states except Alaska. Action limits for required tests are the lower of any conflicting state regulations.

**Decision Rule:** Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

**References:** limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT), µg/g = ppm, µg/kg = ppb, too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)

SC Laboratories California LLC. | 100 Pioneer Street, Suite E, Santa Cruz, CA 95060 | (866) 435-0709 | sclabs.com | C8-0000013-LIC | ISO/IES 17025:2017 PJLA Accreditation Number 87168

Contact Us
(https://www.sclabs.com/contact-us/)

FAQ (https:/

(tel:8664350709)

(866) 435-0709
(tel:8664350709)

@
(mailto:info@sclabs.com)