

## Ghost OG (Batch ID: 201GST011024)

Sample ID: 2401APO0399.1907  
Strain: Ghost OG  
Matrix: Plant  
Type: Flower - Cured  
Source Batch #:

Produced:  
Collected: 01/29/2024 06:57 am  
Received: 01/29/2024  
Completed: 02/01/2024  
Batch #: 201GST011024  
Harvest Date: 01/10/2024

Client  
**Sonoran Roots**  
Lic. # 00000037DCDM00904008

Lot #:  
Production Date:  
Production Method:



### Summary

| Test         | Date Tested | Result   |
|--------------|-------------|----------|
| Batch        |             | Pass     |
| Cannabinoids | 01/30/2024  | Complete |
| Terpenes     | 01/31/2024  | Complete |
| Microbials   | 02/01/2024  | Pass     |
| Pesticides   | 01/29/2024  | Pass     |
| Heavy Metals | 01/30/2024  | Pass     |

### Cannabinoids

Complete



| Analyte          | LOD | LOQ    | Result         | Result          | Q |
|------------------|-----|--------|----------------|-----------------|---|
|                  | %   | %      | %              | mg/g            |   |
| THCa             |     | 0.1000 | 27.8468        | 278.468         |   |
| Δ9-THC           |     | 0.1000 | 0.5177         | 5.177           |   |
| Δ8-THC           |     | 0.1000 | ND             | ND              |   |
| THCV             |     | 0.1000 | ND             | ND              |   |
| CBDa             |     | 0.1000 | <LOQ           | <LOQ            |   |
| CBD              |     | 0.1000 | ND             | ND              |   |
| CBDVa            |     | 0.1000 | ND             | ND              |   |
| CBDV             |     | 0.1000 | ND             | ND              |   |
| CBN              |     | 0.1000 | ND             | ND              |   |
| CBGa             |     | 0.1000 | 1.0135         | 10.135          |   |
| CBG              |     | 0.1000 | 0.1244         | 1.244           |   |
| CBC              |     | 0.1000 | ND             | ND              |   |
| <b>Total THC</b> |     |        | <b>24.9394</b> | <b>249.3940</b> |   |
| <b>Total CBD</b> |     |        | <b>&lt;LOQ</b> | <b>&lt;LOQ</b>  |   |
| <b>Total</b>     |     |        | <b>29.5025</b> | <b>295.025</b>  |   |

Date Tested: 01/30/2024 07:00 am



Bryant Kearl  
Lab Director  
02/01/2024

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**Pesticides**

**Pass**

| Analyte             | LOQ    | Limit  | Mass | Q  | Status | Analyte         | LOQ    | Limit  | Mass | Q  | Status |
|---------------------|--------|--------|------|----|--------|-----------------|--------|--------|------|----|--------|
|                     | PPM    | PPM    | PPM  |    |        |                 | PPM    | PPM    | PPM  |    |        |
| Abamectin           | 0.2500 | 0.5000 | ND   | M1 | Pass   | Hexythiazox     | 0.5000 | 1.0000 | ND   | M2 | Pass   |
| Acephate            | 0.2000 | 0.4000 | ND   |    | Pass   | Imazalil        | 0.1000 | 0.2000 | ND   |    | Pass   |
| Acetamiprid         | 0.1000 | 0.2000 | ND   |    | Pass   | Imidacloprid    | 0.2000 | 0.4000 | ND   |    | Pass   |
| Aldicarb            | 0.2000 | 0.4000 | ND   |    | Pass   | Kresoxim Methyl | 0.2000 | 0.4000 | ND   |    | Pass   |
| Azoxystrobin        | 0.1000 | 0.2000 | ND   |    | Pass   | Malathion       | 0.1000 | 0.2000 | ND   |    | Pass   |
| Bifenazate          | 0.1000 | 0.2000 | ND   |    | Pass   | Metalaxyl       | 0.1000 | 0.2000 | ND   |    | Pass   |
| Bifenthrin          | 0.1000 | 0.2000 | ND   | M2 | Pass   | Methiocarb      | 0.1000 | 0.2000 | ND   |    | Pass   |
| Boscalid            | 0.2000 | 0.4000 | ND   | M2 | Pass   | Methomyl        | 0.2000 | 0.4000 | ND   |    | Pass   |
| Carbaryl            | 0.1000 | 0.2000 | ND   |    | Pass   | Myclobutanil    | 0.1000 | 0.2000 | ND   |    | Pass   |
| Carbofuran          | 0.1000 | 0.2000 | ND   |    | Pass   | Naled           | 0.2500 | 0.5000 | ND   |    | Pass   |
| Chlorantraniliprole | 0.1000 | 0.2000 | ND   |    | Pass   | Oxamyl          | 0.5000 | 1.0000 | ND   |    | Pass   |
| Chlorfenapyr        | 0.5000 | 1.0000 | ND   | M2 | Pass   | Paclbutrazol    | 0.2000 | 0.4000 | ND   | M2 | Pass   |
| Chlorpyrifos        | 0.1000 | 0.2000 | ND   | M2 | Pass   | Permethrins     | 0.1000 | 0.2000 | ND   | M2 | Pass   |
| Clofentezine        | 0.1000 | 0.2000 | ND   |    | Pass   | Phosmet         | 0.1000 | 0.2000 | ND   |    | Pass   |
| Cyfluthrin          | 0.5000 | 1.0000 | ND   | M2 | Pass   | Piperonyl       | 1.0000 | 2.0000 | ND   |    | Pass   |
| Cypermethrin        | 0.5000 | 1.0000 | ND   |    | Pass   | Butoxide        | 0.1000 | 0.2000 | ND   |    | Pass   |
| Daminozide          | 0.5000 | 1.0000 | ND   |    | Pass   | Prallethrin     | 0.2000 | 0.4000 | ND   |    | Pass   |
| Diazinon            | 0.1000 | 0.2000 | ND   |    | Pass   | Propiconazole   | 0.2000 | 0.4000 | ND   |    | Pass   |
| Dichlorvos          | 0.0500 | 0.1000 | ND   |    | Pass   | Propoxur        | 0.1000 | 0.2000 | ND   |    | Pass   |
| Dimethoate          | 0.1000 | 0.2000 | ND   |    | Pass   | Pyrethrins      | 0.5000 | 1.0000 | ND   | M2 | Pass   |
| Ethoprophos         | 0.1000 | 0.2000 | ND   |    | Pass   | Pyridaben       | 0.1000 | 0.2000 | ND   |    | Pass   |
| Etofenprox          | 0.2000 | 0.4000 | ND   |    | Pass   | Spinosad        | 0.1000 | 0.2000 | ND   | M1 | Pass   |
| Etoxazole           | 0.1000 | 0.2000 | ND   |    | Pass   | Spiromesifen    | 0.1000 | 0.2000 | ND   |    | Pass   |
| Fenoxycarb          | 0.1000 | 0.2000 | ND   | M2 | Pass   | Spirotetramat   | 0.1000 | 0.2000 | ND   |    | Pass   |
| Fenpyroximate       | 0.2000 | 0.4000 | ND   | M2 | Pass   | Spiroxamine     | 0.2000 | 0.4000 | ND   | M1 | Pass   |
| Fipronil            | 0.2000 | 0.4000 | ND   |    | Pass   | Tebuconazole    | 0.2000 | 0.4000 | ND   |    | Pass   |
| Flonicamid          | 0.5000 | 1.0000 | ND   |    | Pass   | Thiacloprid     | 0.1000 | 0.2000 | ND   |    | Pass   |
| Fludioxonil         | 0.2000 | 0.4000 | ND   |    | Pass   | Thiamethoxam    | 0.1000 | 0.2000 | ND   |    | Pass   |
|                     |        |        |      |    |        | Trifloxystrobin | 0.1000 | 0.2000 | ND   | M2 | Pass   |

Date Tested: 01/29/2024 07:00 am



Bryant Kearl  
Lab Director  
02/01/2024

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Lot #:  
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Production Method:

### Microbials

Pass

| Analyte   | Limit                       | Result | Status | Q |
|---|-----------------------------|--------|--------|---|
| Salmonella SPP  | Detected/Not Detected in 1g | ND     | Pass   |   |
| Aspergillus Flavus Aspergillus Fumigatus or Aspergillus Niger | Detected/Not Detected in 1g | ND     | Pass   |   |
| Aspergillus terreus   | Detected/Not Detected in 1g | ND     | Pass   |   |

| Analyte | LOQ           | Limit          | Result              | Status | Q |
|---------|---------------|----------------|---------------------|--------|---|
| E. Coli | CFU/g<br>10.0 | CFU/g<br>100.0 | CFU/g<br>< 10 CFU/g | Pass   |   |

Date Tested: 02/01/2024 12:00 am

### Mycotoxins

Not Tested

| Analyte | LOD | LOQ | Limit | Units | Status | Q |
|---------|-----|-----|-------|-------|--------|---|
|---------|-----|-----|-------|-------|--------|---|

Date Tested:

### Heavy Metals

Pass

| Analyte | LOD           | LOQ           | Limit         | Units     | Status | Q  |
|---------|---------------|---------------|---------------|-----------|--------|----|
| Arsenic | PPM<br>0.0660 | PPM<br>0.1330 | PPM<br>0.4000 | PPM<br>ND | Pass   | V1 |
| Cadmium | PPM<br>0.0660 | PPM<br>0.1330 | PPM<br>0.4000 | PPM<br>ND | Pass   | V1 |
| Lead    | PPM<br>0.1660 | PPM<br>0.3330 | PPM<br>1.0000 | PPM<br>ND | Pass   | V1 |
| Mercury | PPM<br>0.0330 | PPM<br>0.0660 | PPM<br>0.2000 | PPM<br>ND | Pass   | V1 |

Date Tested: 01/30/2024 07:00 am



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**Terpenes**

| Analyte              | LOQ    | Mass   | Mass  | Q  | Analyte            | LOQ    | Mass          | Mass          | Q  |
|----------------------|--------|--------|-------|----|--------------------|--------|---------------|---------------|----|
|                      | %      | %      | mg/g  |    |                    | %      | %             | mg/g          |    |
| β-Myrcene            | 0.0010 | 0.9241 | 9.241 | Q3 | cis-Citral         | 0.0010 | ND            | ND            | Q3 |
| D,L-Limonene         | 0.0010 | 0.5499 | 5.499 | Q3 | cis-Farnesol       | 0.0010 | ND            | ND            | Q3 |
| β-Caryophyllene      | 0.0010 | 0.4691 | 4.691 | Q3 | cis-Nerolidol      | 0.0010 | ND            | ND            | Q3 |
| Linalool             | 0.0010 | 0.1938 | 1.938 | Q3 | cis-beta-Ocimene   | 0.0010 | ND            | ND            | Q3 |
| β-Pinene             | 0.0010 | 0.1283 | 1.283 | Q3 | Eucalyptol         | 0.0010 | ND            | ND            | Q3 |
| α-Humulene           | 0.0010 | 0.1067 | 1.067 | Q3 | γ-Terpinene        | 0.0010 | ND            | ND            | Q3 |
| α-Pinene             | 0.0010 | 0.0674 | 0.674 | Q3 | Geranyl Acetate    | 0.0010 | ND            | ND            | Q3 |
| Endo-Fenchyl Alcohol | 0.0010 | 0.0499 | 0.499 | Q3 | Guaiol             | 0.0010 | ND            | ND            | Q3 |
| α-Bisabolol          | 0.0010 | 0.0495 | 0.495 | Q3 | Isoborneol         | 0.0010 | ND            | ND            | Q3 |
| α-Terpineol          | 0.0010 | 0.0437 | 0.437 | Q3 | Isobornyl Acetate  | 0.0010 | ND            | ND            | Q3 |
| Caryophyllene Oxide  | 0.0010 | 0.0235 | 0.235 | Q3 | Isopulegol         | 0.0010 | ND            | ND            | Q3 |
| Camphene             | 0.0010 | 0.0188 | 0.188 | Q3 | m-Cymene           | 0.0010 | ND            | ND            | Q3 |
| D,L-Borneol          | 0.0010 | 0.0182 | 0.182 | Q3 | Menthol            | 0.0010 | ND            | ND            | Q3 |
| Valencene            | 0.0010 | 0.0110 | 0.110 | Q3 | L-Menthone         | 0.0010 | ND            | ND            | Q3 |
| Fenchone             | 0.0010 | 0.0093 | 0.093 | Q3 | Nerol              | 0.0010 | ND            | ND            | Q3 |
| Camphor              | 0.0010 | 0.0065 | 0.065 | Q3 | Nootkatone         | 0.0010 | ND            | ND            | Q3 |
| Terpinolene          | 0.0010 | 0.0051 | 0.051 | Q3 | o,p-Cymene         | 0.0010 | ND            | ND            | Q3 |
| Geraniol             | 0.0010 | 0.0049 | 0.049 | Q3 | Octyl Acetate      | 0.0010 | ND            | ND            | Q3 |
| Citronellol          | 0.0010 | 0.0035 | 0.035 | Q3 | Phytane            | 0.0010 | ND            | ND            | Q3 |
| Cedrol               | 0.0010 | 0.0016 | 0.016 | Q3 | Piperitone         | 0.0010 | ND            | ND            | Q3 |
| Sabinene Hydrate     | 0.0010 | 0.0015 | 0.015 | Q3 | Pulegone           | 0.0010 | ND            | ND            | Q3 |
| 3-Carene             | 0.0010 | ND     | ND    | Q3 | Sabinene           | 0.0010 | ND            | ND            | Q3 |
| α-Cedrene            | 0.0010 | ND     | ND    | Q3 | Safranal           | 0.0010 | ND            | ND            | Q3 |
| α-Phellandrene       | 0.0010 | ND     | ND    | Q3 | Terpinen-4-ol      | 0.0010 | ND            | ND            | Q3 |
| α-Terpinene          | 0.0010 | ND     | ND    | Q3 | Thymol             | 0.0010 | ND            | ND            | Q3 |
| α-Thujone            | 0.0010 | ND     | ND    | Q3 | trans-Citral       | 0.0010 | ND            | ND            | Q3 |
| trans-β-Farnesene    | 0.0010 | ND     | ND    | Q3 | trans-Nerolidol    | 0.0010 | ND            | ND            | Q3 |
| Carvacrol            | 0.0010 | ND     | ND    | Q3 | trans-beta-Ocimene | 0.0010 | ND            | ND            | Q3 |
| Carvone              | 0.0010 | ND     | ND    | Q3 | Verbenone          | 0.0010 | ND            | ND            | Q3 |
|                      |        |        |       |    | <b>Total</b>       |        | <b>2.6864</b> | <b>26.864</b> |    |

**Primary Aromas**



Hops



Orange



Cinnamon



Lavender



Pine

Date Tested: 01/31/2024 12:00 am  
Terpenes analysis is not regulated by AZDHS.



*[Signature]*

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Lab Director  
02/01/2024

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**Qualifiers Definitions**

| Qualifier Notation | Qualifier Description  |
|--------------------|--|
| I1                 | The relative intensity of a characteristic ion in a sample analyte exceeded the acceptance criteria in subsection (L)(1) with respect to the reference spectra, indicating interference  |
| L1                 | When testing for pesticides, fungicides, herbicides, growth regulators, heavy metals, or residual solvents, the percent recovery of a laboratory control sample is greater than the acceptance limits in subsection (K)(2)(c), but the sample's target analytes were not detected above the maximum allowable concentrations in Table 3.1 for the analytes in the sample |
| M1                 | The recovery from the matrix spike in subsection (K)(4) was: a. High, but the recovery from the laboratory control sample in subsection (K)(2) was within acceptance criteria  |
| M2                 | The recovery from the matrix spike in subsection (K)(4) was: b. Low, but the recovery from the laboratory control sample in subsection (K)(2) was within acceptance criteria   |
| M3                 | The recovery from the matrix spike in subsection (K)(4) was: c. Unusable because the analyte concentration was disproportionate to the spike level, but the recovery from the laboratory control sample in subsection (K)(2) was within acceptance criteria  |
| R1                 | The relative percent difference for the laboratory control sample and duplicate exceeded the limit in subsection (K)(3), but the recovery in subsection (K)(2) was within acceptance criteria  |
| V1                 | The recovery from continuing calibration verification standards exceeded the acceptance limits in subsection (J)(1)(b), but the sample's target analytes were not detected above the maximum allowable concentrations in Table 3.1 for the analytes in the sample  |
| Q2                 | The sample is heterogeneous, and sample homogeneity could not be readily achieved using routine laboratory practices - Used to denote that the sample as-received could not be fully pre-homogenized in packaging prior to microbiology analysis   |
| Q3                 | Testing result is for informational purposes only and cannot be used to satisfy dispensary testing requirements in R9-17-317.01(A) or labeling requirements in R9-17-317   |

**Notes and Addenda:**



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