

IO Distillate Product - Pineapple Express

Sample ID: 2501APO0202.1015
Strain: Pineapple Express
Matrix: Concentrates & Extracts
Type: Formulated Vape Oil
Source Batch #:

Produced:
Collected: 01/15/2025 09:31 am
Received: 01/15/2025
Completed: 01/21/2025
Batch #: IO-0107-PE
Harvest Date: 12/02/2024

Client
Io Extracts
Lic. # 00000067ESBS89254298

Lot #: IO-0107
Production/Manufacture Date: 01/07/2025
Production/Manufacture Method: Vacuum Distillation



Summary

| Test | Date Tested | Result |
|--------------|-------------|----------|
| Batch | | Pass |
| Cannabinoids | 01/16/2025 | Complete |
| Microbials | 01/20/2025 | Pass |

Cannabinoids by SOP-6

Complete



| Analyte | LOD | LOQ | Result | Result | Q |
|------------------|-----|--------|----------------|-----------------|---|
| | % | % | % | mg/g | |
| THCa | | 0.1000 | ND | ND | |
| Δ9-THC | | 0.1000 | 92.5025 | 925.025 | |
| Δ8-THC | | 0.1000 | 1.4116 | 14.116 | |
| THCV | | 0.1000 | 0.8489 | 8.489 | |
| CBDa | | 0.1000 | ND | ND | |
| CBD | | 0.1000 | 0.2409 | 2.409 | |
| CBDVa | | 0.1000 | ND | ND | |
| CBDV | | 0.1000 | ND | ND | |
| CBN | | 0.1000 | 0.4354 | 4.354 | |
| CBGa | | 0.1000 | ND | ND | |
| CBG | | 0.1000 | 1.3669 | 13.669 | |
| CBC | | 0.1000 | 0.6005 | 6.005 | |
| Total THC | | | 92.5025 | 925.0250 | |
| Total CBD | | | 0.2409 | 2.4090 | |
| Total | | | 97.4068 | 974.068 | |

Date Tested: 01/16/2025 07:00 am



Anthony Settanni
Anthony Settanni
Lab Director
01/21/2025

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Microbials

Pass

| Analyte | Limit | Result | Status | Q |
|---|-----------------------------|--------|--------|---|
| Salmonella SPP by QPCR: SOP-15 | Detected/Not Detected in 1g | ND | Pass | |
| Aspergillus Flavus Aspergillus Fumigatus or Aspergillus Niger by QPCR: SOP-14 | Detected/Not Detected in 1g | ND | Pass | |
| Aspergillus Terreus by QPCR: SOP-14 | Detected/Not Detected in 1g | ND | Pass | |

| Analyte | LOQ | Limit | Result | Status | Q |
|--|---------------|----------------|---------------------|--------|---|
| E. Coli by traditional plating: SOP-13 | CFU/g 10.0 | CFU/g 100.0 | CFU/g < 10 CFU/g | Pass | |

Date Tested: 01/20/2025 12:00 am

Mycotoxins by SOP-22

Not Tested

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

Date Tested:

Heavy Metals by SOP-21

Not Tested

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

Date Tested:



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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 |

Customer Supplied Information:

G4/Halo - Other Information

Using marijuana during pregnancy could cause birth defects or other health issues to your unborn child.

Cultivated by: The Green Halo LLC (G4/Halo) (00000120ESGW29293058)

Manufactured by: Arizona Golden Leaf Wellness (00000067ESBS89254298)

Distributed through: Arizona Golden Leaf Wellness (00000067ESBS89254298, 00000077DCPS00216601)

<https://azcarecheck.azdhs.gov/s/>

Notes and Addenda:



Bryant Kearl
Chief Scientific Officer
01/21/2025

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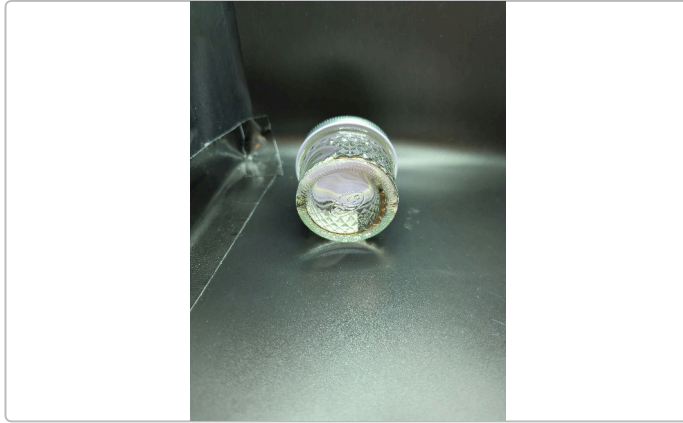
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Production/Manufacture Method: Vacuum Distillation



Summary

| Test | Date Tested | Result |
|-------------------|-------------|----------|
| Batch | | Pass |
| Cannabinoids | 01/09/2025 | Complete |
| Residual Solvents | 01/09/2025 | Pass |
| Microbials | 01/13/2025 | Pass |
| Mycotoxins | 01/09/2025 | Pass |
| Pesticides | 01/09/2025 | Pass |
| Heavy Metals | 01/09/2025 | Pass |

Cannabinoids by SOP-6

Complete



| Analyte | LOD | LOQ | Result | Result | Q |
|------------------|-----|--------|----------------|-----------------|---|
| | % | % | % | mg/g | |
| THCa | | 0.1000 | ND | ND | |
| Δ9-THC | | 0.1000 | 92.2157 | 922.157 | |
| Δ8-THC | | 0.1000 | 1.1248 | 11.248 | |
| THCV | | 0.1000 | 0.8606 | 8.606 | |
| CBDa | | 0.1000 | ND | ND | |
| CBD | | 0.1000 | 0.2680 | 2.680 | |
| CBDVa | | 0.1000 | ND | ND | |
| CBDV | | 0.1000 | ND | ND | |
| CBN | | 0.1000 | 0.4455 | 4.455 | |
| CBGa | | 0.1000 | ND | ND | |
| CBG | | 0.1000 | 1.4056 | 14.056 | |
| CBC | | 0.1000 | 0.6940 | 6.940 | |
| Total THC | | | 92.2157 | 922.1570 | |
| Total CBD | | | 0.2680 | 2.6800 | |
| Total | | | 97.0143 | 970.143 | |

Date Tested: 01/09/2025 12:00 am



Anthony Settanni
Anthony Settanni
Lab Director
01/13/2025

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Production/Manufacture Date: 01/07/2025
Production/Manufacture Method: Vacuum Distillation

Pesticides by SOP-22

Pass

| Analyte | LOQ | Limit | Result | Q | Status | Analyte | LOQ | Limit | Result | Q | Status |
|---------------------|--------|--------|--------|---|--------|-----------------|--------|--------|--------|---|--------|
| | PPM | PPM | PPM | | | | PPM | PPM | PPM | | |
| Abamectin | 0.2500 | 0.5000 | ND | | Pass | Hexythiazox | 0.5000 | 1.0000 | ND | | 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 | | Pass | Methiocarb | 0.1000 | 0.2000 | ND | | Pass |
| Boscalid | 0.2000 | 0.4000 | ND | | 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 | | Pass | Paclbutrazol | 0.2000 | 0.4000 | ND | | Pass |
| Chlorpyrifos | 0.1000 | 0.2000 | ND | | Pass | Permethrins | 0.1000 | 0.2000 | ND | | Pass |
| Clofentezine | 0.1000 | 0.2000 | ND | | Pass | Phosmet | 0.1000 | 0.2000 | ND | | Pass |
| Cyfluthrin | 0.5000 | 1.0000 | ND | | Pass | Piperonyl | 1.0000 | 2.0000 | ND | | Pass |
| Cypermethrin | 0.5000 | 1.0000 | ND | | Pass | Butoxide | | | | | |
| Daminozide | 0.5000 | 1.0000 | ND | | Pass | Prallethrin | 0.1000 | 0.2000 | 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 | | 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 | | Pass |
| Etoxazole | 0.1000 | 0.2000 | ND | | Pass | Spiromesifen | 0.1000 | 0.2000 | ND | | Pass |
| Fenoxycarb | 0.1000 | 0.2000 | ND | | Pass | Spirotetramat | 0.1000 | 0.2000 | ND | | Pass |
| Fenpyroximate | 0.2000 | 0.4000 | ND | | Pass | Spiroxamine | 0.2000 | 0.4000 | ND | | 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 | | Pass |

Date Tested: 01/09/2025 07:00 am



Anthony Settanni

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Lab Director
01/13/2025

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Lot #: IO-0107
Production/Manufacture Date: 01/07/2025
Production/Manufacture Method: Vacuum Distillation

Microbials

Pass

| Analyte | Limit | Result | Status | Q |
|---|-----------------------------|--------|--------|---|
| Salmonella SPP by QPCR: SOP-15 | Detected/Not Detected in 1g | ND | Pass | |
| Aspergillus Flavus Aspergillus Fumigatus or Aspergillus Niger by QPCR: SOP-14 | Detected/Not Detected in 1g | ND | Pass | |
| Aspergillus Terreus by QPCR: SOP-14 | Detected/Not Detected in 1g | ND | Pass | |

| Analyte | LOQ | Limit | Result | Status | Q |
|--|---------------|----------------|---------------------|--------|---|
| E. Coli by traditional plating: SOP-13 | CFU/g 10.0 | CFU/g 100.0 | CFU/g < 10 CFU/g | Pass | |

Date Tested: 01/13/2025 12:00 am

Mycotoxins by SOP-22

Pass

| Analyte | LOD | LOQ | Limit | Units | Status | Q |
|------------------|-------|-------|-------|-------|--------|---|
| | µg/kg | µg/kg | µg/kg | µg/kg | | |
| B1 | 5 | 10 | 20 | ND | Pass | |
| B2 | 5 | 10 | 20 | ND | Pass | |
| G1 | 5 | 10 | 20 | ND | Pass | |
| G2 | 5 | 10 | 20 | ND | Pass | |
| Total Aflatoxins | 5 | 10 | 20 | ND | Pass | |
| Ochratoxin A | 5 | 10 | 20 | ND | Pass | |

Date Tested: 01/09/2025 07:00 am

Heavy Metals by SOP-21

Pass

| Analyte | LOD | LOQ | Limit | Units | Status | Q |
|---------|--------|--------|--------|-------|--------|---|
| | PPM | PPM | PPM | PPM | | |
| Arsenic | 0.1000 | 0.1330 | 0.4000 | ND | Pass | |
| Cadmium | 0.1000 | 0.1330 | 0.4000 | ND | Pass | |
| Lead | 0.2500 | 0.3330 | 1.0000 | ND | Pass | |
| Mercury | 0.0500 | 0.0660 | 0.2000 | ND | Pass | |

Date Tested: 01/09/2025 07:00 am



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Lab Director
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Residual Solvents by SOP-3

| Analyte | LOQ | Limit | Result | Status | Q |
|-------------------------|-----------|-----------|--------|--------|------|
| | PPM | PPM | PPM | | Pass |
| Acetone | 381.0000 | 1000.0000 | ND | Pass | |
| Acetonitrile | 154.0000 | 410.0000 | ND | Pass | |
| Benzene | 1.0000 | 2.0000 | ND | Pass | |
| Butanes | 1914.0000 | 5000.0000 | ND | Pass | |
| Chloroform | 24.0000 | 60.0000 | ND | Pass | |
| Dichloromethane | 231.0000 | 600.0000 | ND | Pass | |
| Ethanol | 1910.0000 | 5000.0000 | ND | Pass | |
| Ethyl-Acetate | 1907.0000 | 5000.0000 | ND | Pass | |
| Ethyl-Ether | 1901.0000 | 5000.0000 | ND | Pass | |
| n-Heptane | 1892.0000 | 5000.0000 | ND | Pass | |
| Hexanes | 115.0000 | 290.0000 | ND | Pass | |
| Isopropanol | 1915.0000 | 5000.0000 | ND | Pass | |
| Isopropyl-Acetate | 1908.0000 | 5000.0000 | ND | Pass | |
| Methanol | 1141.0000 | 3000.0000 | ND | Pass | |
| Pentane | 1923.0000 | 5000.0000 | ND | Pass | |
| Toluene | 343.0000 | 890.0000 | ND | Pass | |
| Xylenes + Ethyl Benzene | 841.0000 | 2170.0000 | ND | Pass | |

Date Tested: 01/09/2025 07:00 am



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Terpenes

| Analyte | LOQ | Result | Result | Q | Analyte | LOQ | Result | Result | Q |
|---------|-----|--------|--------|---|---------|-----|--------|--------|---|
|---------|-----|--------|--------|---|---------|-----|--------|--------|---|



Primary Aromas

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

Date Tested:



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Lot #: IO-0107
Production/Manufacture Date: 01/07/2025
Production/Manufacture Method: Vacuum Distillation

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 |

Customer Supplied Information:

Halo/G4 - Other Information
Using marijuana during pregnancy could cause birth defects or other health issues to your unborn child.
Cultivated by: The Green Halo LLC (Halo/G4) (00000120ESGW29293058)
Manufactured by: Arizona Golden Leaf Wellness (00000067ESBS89254298)
Distributed through: Arizona Golden Leaf Wellness (00000067ESBS89254298, 00000077DCPS00216601)
<https://azcarecheck.azdhs.gov/s/>

Notes and Addenda:



Bryant Kearl
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01/13/2025

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ARIZONA DEPARTMENT OF HEALTH SERVICES' WARNING:
Marijuana use can be addictive and can impair an individual's ability to drive a motor vehicle or operate heavy machinery. Marijuana smoke contains carcinogens and can lead to an increased risk for cancer, tachycardia, hypertension, heart attack, and lung infection. Marijuana use may affect the health of a pregnant woman and the unborn child. Using marijuana during pregnancy could cause birth defects or other health issues to your unborn child;
KEEP OUT OF REACH OF CHILDREN.
The product associated with the COA has been tested by Apollo Labs using validated state certified testing methodologies as required by Arizona state law. Values reported herein relate only to the specific sample of product submitted by Client for testing. Apollo Labs makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Apollo Labs.