

Comprehensive Analysis Report

Sample Overview

Client: Koodegras/K002 Labs

4356 South 900 East, Millcreek UT
84124

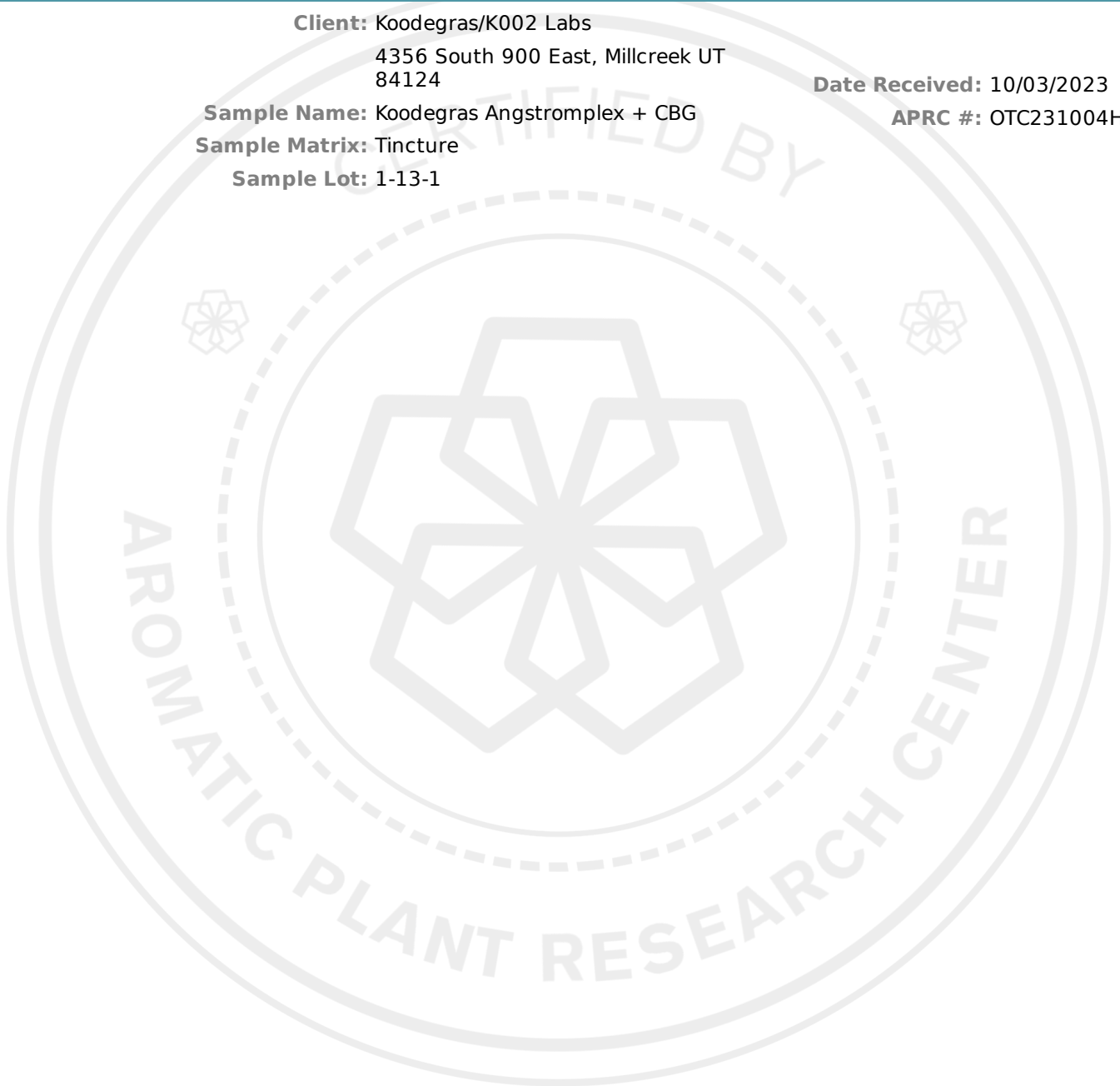
Date Received: 10/03/2023

Sample Name: Koodegras Angstromplex + CBG

APRC #: OTC231004H

Sample Matrix: Tincture

Sample Lot: 1-13-1





| Assay | Disposition | Date Tested |
|--|-------------|-------------|
| Heavy Metals - Utah State Cannabis Panel | Tested | 10-09-2023 |

ICPMS Analysis Report

Heavy Metals

Method: CTLA

Sample Name: Koodegras Angstromplex + CBG

APRC Lot Number: OTC231004H

| Analyte | Result (ppm) | LOD (ppm) | Threshold (ppm) | Pass/Fail |
|---------|--------------|-----------|-----------------|-----------|
| Arsenic | 0.001 | 0.001 | 2.00 | Pass |
| Cadmium | <0.001 | 0.001 | 0.82 | Pass |
| Lead | <0.001 | 0.001 | 1.20 | Pass |
| Mercury | <0.001 | 0.001 | 0.40 | Pass |

Heavy metal analysis is completed in partnership with Contract Testing Laboratories of America, Orem UT.

Performed by: CTLA

Reviewed by: Jordan Morley

Approved By:

Preliminary report issued at the request of the client. Final report to be issued at a later date.
10/10/2023

Comprehensive Analysis Report

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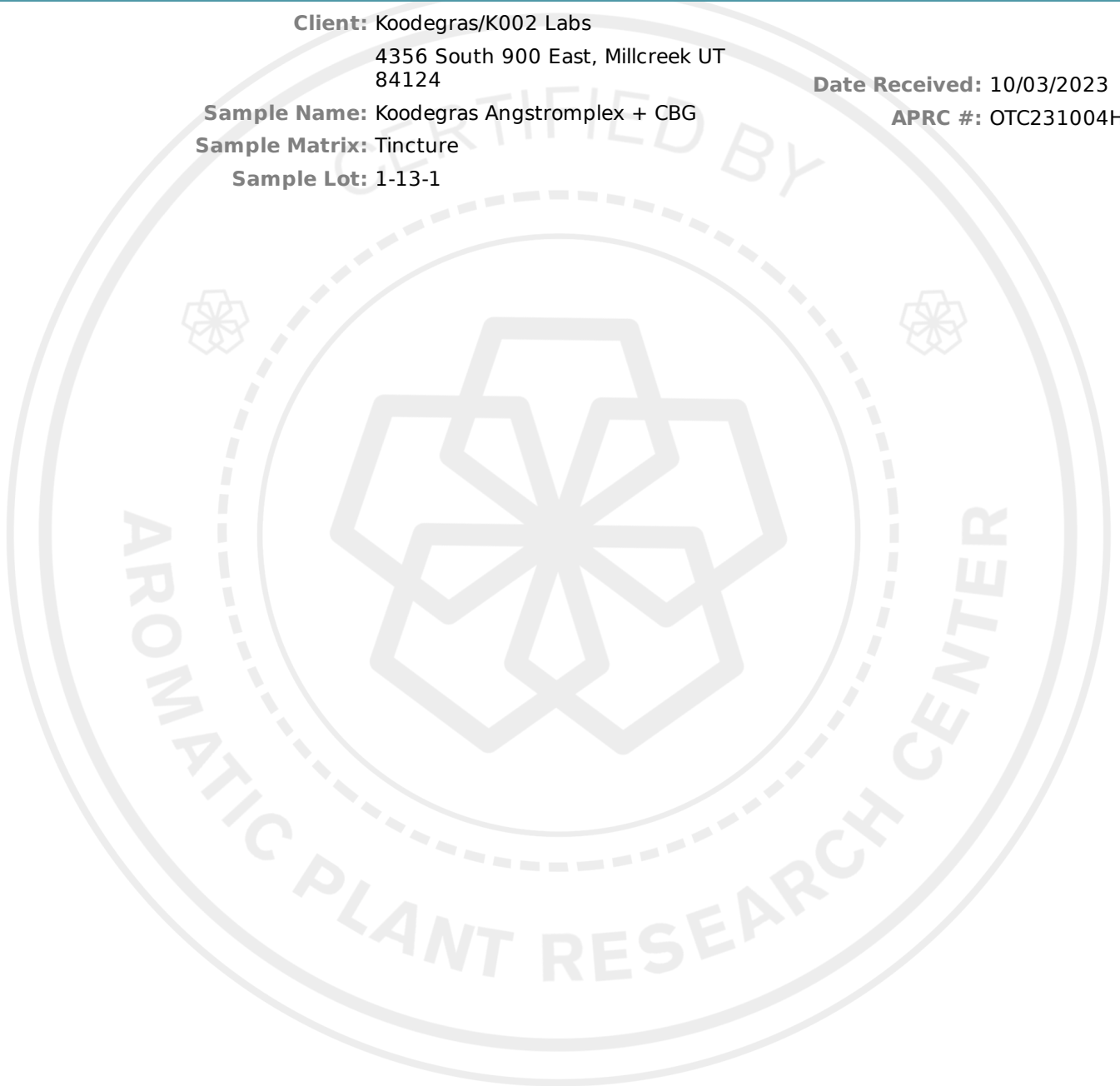
Date Received: 10/03/2023

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APRC #: OTC231004H

Sample Matrix: Tincture

Sample Lot: 1-13-1





| Assay | Disposition | Date Tested |
|---|-------------|-------------|
| Microbial: Quantitative Bacteria/Yeast/ Mold | Tested | 10-05-2023 |

Hardy CompactDry Plating Analysis Report

Microbial Impurities

Method: SOP 1-2034.01

Sample Name: Koodegras Angstromplex + CBG

APRC Lot Number: OTC231004H

| Total Counts | | | |
|------------------------|-----------------|----------------|--------------|
| Microbial Group: | Result (CFU/g): | Specification: | Disposition: |
| Total Aerobic Bacteria | <10 | ≤10,000 | Pass |
| Total Yeast and Mold | <10 | ≤1,000 | Pass |

| Specific Organism Identification | | | |
|----------------------------------|--------------|----------------|--------------|
| Microbial Organism: | Result: | Specification: | Disposition: |
| Aspergillus flavus | Not Tested | Not Tested | Not Tested |
| Aspergillus fumigatus | Not Tested | Not Tested | Not Tested |
| Aspergillus niger | Not Tested | Not Tested | Not Tested |
| Aspergillus terreus | Not Tested | Not Tested | Not Tested |
| E. coli | Not Detected | Not Detected | Pass |
| STEC | Not Detected | Report Only | Tested |
| Salmonella - Specific Gene | Not Detected | Not Detected | Pass |
| Staphylococcus aureus | Not Detected | Not Detected | Pass |
| Pseudomonas aeruginosa | Not Detected | Report Only | Tested |

Performed by: Jordan Morley

Notes: Foreign Matter: Not Detected.

Reviewed by: Tessa Crook

Approved By:

Preliminary report issued at the request of the client. Final report to be issued at a later date.
10/11/2023

Comprehensive Analysis Report

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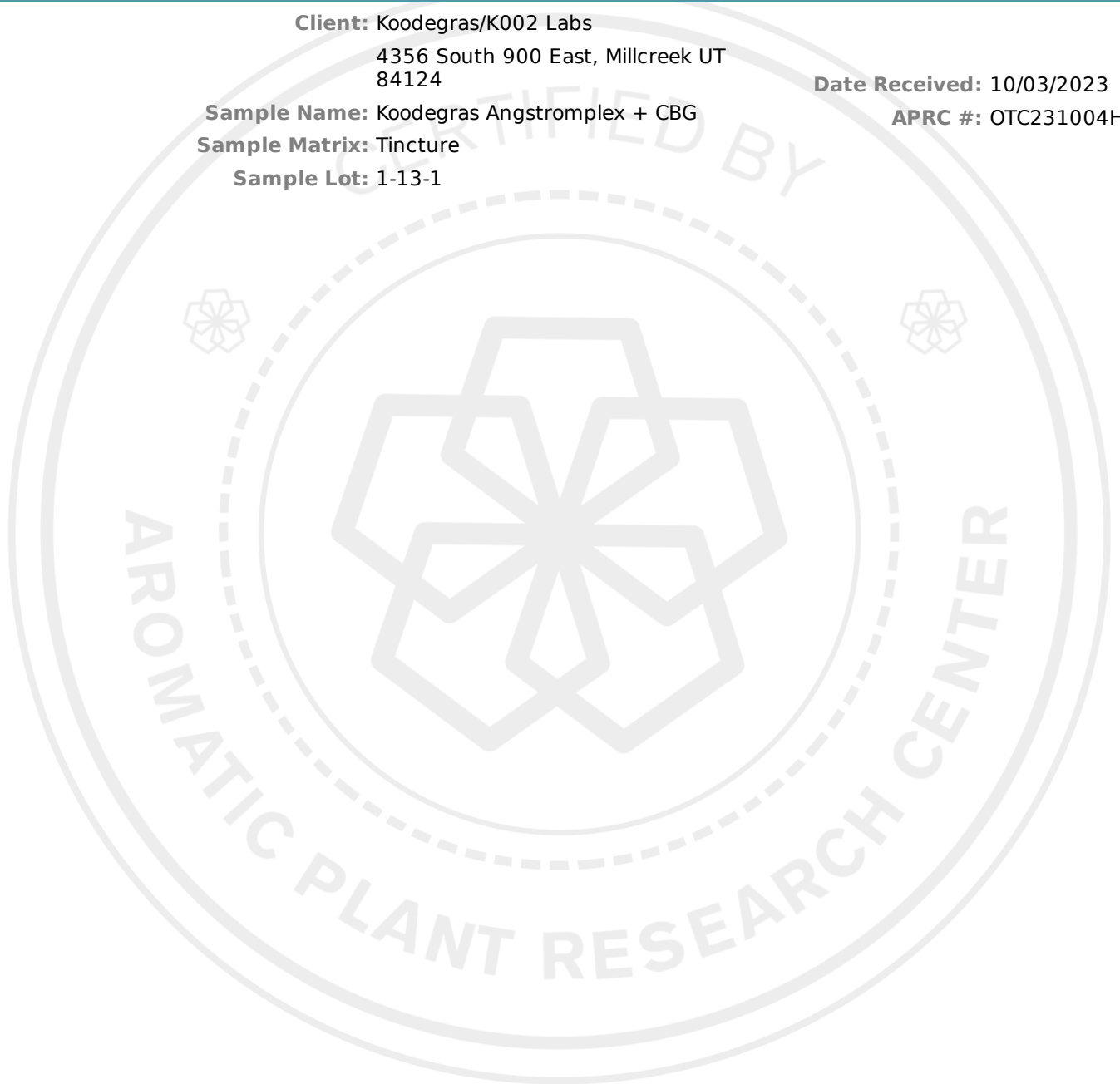
Date Received: 10/03/2023

Sample Name: Koodegras Angstromplex + CBG

APRC #: OTC231004H

Sample Matrix: Tincture

Sample Lot: 1-13-1





| Assay | Disposition | Date Tested |
|-------------------------------------|-------------|-------------|
| Hemp or R&D Residual Solvents | Tested | 10-06-2023 |

GCMS Analysis Report

Residual Solvents

Method: SOP 1-2027.03

Sample Name: Koodegras Angstromplex + CBG

APRC Lot Number: OTC231004H

| Residual Solvent | Finding (µg/g) | Action Level (µg/g) | Pass/Fail |
|-----------------------|----------------|---------------------|-----------|
| Dimethyl sulfoxide | ND | 5000 | Pass |
| N,N-dimethylacetamide | ND | 1090 | Pass |
| 1,2 Dimethoxyethane | ND | 100 | Pass |
| 1,4 Dioxane | ND | 380 | Pass |
| 1-Butanol | ND | 5000 | Pass |
| 1-Pentanol | ND | 5000 | Pass |
| 1-Propanol | ND | 5000 | Pass |
| 2-Butanone | ND | 5000 | Pass |
| 2-Butanol | ND | 5000 | Pass |
| 2-Ethoxyethanol | ND | 160 | Pass |
| 2-Methylbutane | ND | 5000 | Pass |
| 2-Propanol | ND | 5000 | Pass |
| Acetone | ND | 5000 | Pass |
| Acetonitrile | ND | 410 | Pass |
| Benzene | ND | 2 | Pass |
| Butane | ND | 5000 | Pass |
| Cumene | ND | 70 | Pass |
| Cyclohexane | ND | 3880 | Pass |
| Dichloromethane | ND | 600 | Pass |
| 2,2-Dimethylbutane | ND | 290 | Pass |
| 2,3-Dimethylbutane | ND | 290 | Pass |
| m,p-Xylene | ND | See Total Xylenes | Pass |
| o-Xylene | ND | See Total Xylenes | Pass |
| Ethanol | 20.964 | 5000 | Pass |
| Ethyl Acetate | ND | 5000 | Pass |
| Ethyl Benzene | ND | See Total Xylenes | Pass |
| Ethyl Ether | ND | 5000 | Pass |
| Ethylene Glycol | ND | 620 | Pass |
| Ethylene Oxide | ND | 50 | Pass |

| Residual Solvent | Finding (µg/g) | Action Level (µg/g) | Pass/Fail |
|-----------------------|----------------|---------------------|-----------|
| Heptane | ND | 5000 | Pass |
| Hexane | ND | 290 | Pass |
| Isopropyl Acetate | ND | 5000 | Pass |
| Methanol | ND | 3000 | Pass |
| Methylpropane | ND | 5000 | Pass |
| 2-Methylpentane | ND | 290 | Pass |
| 3-Methylpentane | ND | 290 | Pass |
| N,N-Dimethylformamide | ND | 880 | Pass |
| Pentane | ND | 5000 | Pass |
| Propane | ND | 5000 | Pass |
| Pyridine | ND | 100 | Pass |
| Sulfolane | ND | 160 | Pass |
| Tetrahydrofuran | ND | 720 | Pass |
| Toluene | ND | 890 | Pass |
| Total Xylenes | ND | 2170 | Pass |

† Per Utah state code 4-41a-701(3) Section R68-29-6

‡ Total Xylenes is a combination of the following: o-Xylene, m-Xylene, p-Xylene, and Ethylbenzene

Overall Disposition: Pass
 Performed By: Anil Rokaya
 Reviewed By: Riley Hunter

Approved By:

Preliminary results provided at the request of the client. A complete COA will be generated at a later date.
 10/10/2023



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

CERTIFICATE OF ANALYSIS

Cannabinoid Analysis

Status: PASS

| | |
|---------------------------------|--|
| Sample ID: HP23276-9 | Description: Angstromplex + CBG |
| Testing Date: 10/06/2023 | 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 | 3.07% | 30.7 |
| Cannabidiolic acid | CBDA | 1244-58-2 | ND | ND |
| Cannabidivarin | CBDV | 24274-48-4 | ND | ND |
| Cannabinol | CBN | 521-35-7 | ND | ND |
| Cannabigerol | CBG | 25654-31-3 | 2.90% | 29 |
| Cannabichromene | CBC | 20675-51-8 | ND | ND |
| Cannabigerolic acid | CBGA | 25555-57-1 | ND | ND |
| Cannabichromenic acid | CBCA | 20408-52-0 | ND | ND |
| Cannabicitran | CBTC | 31508-71-1 | NT | NT |
| 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 | | | 5.97% | 59.7 |
| Total THC | | | ND | ND |
| Total CBD | | | 3.07% | 30.7 |
| Total THC Analogs | | | ND | ND |

Unknown Cannabinoid Peak Area: 0.0%

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).

Total THC Analogs is calculated as Δ 9-THC + (THCA x 0.877) + Δ 8-THC + CBTC.

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

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 4451 South 2700 West
 Taylorsville, Utah 84129
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CERTIFICATE OF ANALYSIS

Sample Information

| | | | |
|--------------------------|--------------------|-----------------------|-----------------------------|
| UDAF Lab # | HP23298-5 | Issue Date: | 10/31/2023 |
| Client: | Koodegras | Client Email: | austinbingham@koodegras.com |
| Producer: | Koodegras | Sample Type: | Liquid Suspension |
| Description: | Angstromplex + CBG | | |
| Batch/Lot Number: | 1-13-1 | Date Received: | 10/25/2023 |
| Date Collected: | 10/25/2023 | Collected By: | Self-Submitted |




Notes:

Testing Summary

Status: PASS

| Analysis: | Testing Date: | Status: | Notes: |
|----------------|---------------|---------|--------|
| Foreign Matter | 10/24/2023 | PASS | |
| Pesticides | 10/31/2023 | PASS | |
| Mycotoxins | 10/31/2023 | PASS | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Approved By:  Date: 10/31/2023
 Brandon Forsyth, Ph.D
 State Chemist

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CERTIFICATE OF ANALYSIS

Foreign Matter Analysis

Status: PASS

| | |
|---------------------------------|--|
| Sample ID: HP23298-5 | Description: Angstromplex + CBG |
| Testing Date: 10/24/2023 | Reviewed By: Brooke Smith |

Method: Analysis performed by visual inspection aided by magnification

| Analyte | Foreign Matter Found | Status |
|----------------|----------------------|--------|
| Foreign Matter | | PASS |

Notes:

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CERTIFICATE OF ANALYSIS

Pesticide Analysis

Status: PASS

| | | | |
|----------------------|------------|---------------------|--------------------|
| Sample ID: | HP23298-5 | Description: | Angstromplex + CBG |
| Testing Date: | 10/31/2023 | Reviewed By: | Cameron Cheyne |

Method: ACL.AM.008 Analysis performed using Liquid Chromatography - Mass Spectrometry (LC-MS/MS)

| Analyte | CAS Number | Result (ppm) | Action Level (ppm) | Status | Analyte | CAS Number | Result (ppm) | Action Level (ppm) | Status |
|---------------------|-------------|--------------|--------------------|--------|--------------------|-------------|--------------|--------------------|--------|
| Abamectin | 71751-41-2 | ND | 0.5 | PASS | Imazilil | 35554-44-0 | ND | 0.2 | PASS |
| Acephate | 30560-19-1 | ND | 0.4 | PASS | Imidacloprid | 138261-41-3 | ND | 0.4 | PASS |
| Acequinocyl | 57960-19-7 | ND | 2 | PASS | Kresoxim-methyl | 143390-89-0 | ND | 0.4 | PASS |
| Acetamiprid | 135410-20-7 | ND | 0.2 | PASS | Malathion | 121-75-5 | ND | 0.2 | PASS |
| Aldicarb | 0116-06-03 | ND | 0.4 | PASS | Metalaxyl | 57837-19-1 | ND | 0.2 | PASS |
| Azoxystrobin | 131860-33-8 | ND | 0.2 | PASS | Methiocarb | 2032-65-7 | ND | 0.2 | PASS |
| Bifenazate | 149877-41-8 | ND | 0.2 | PASS | Methomyl | 16752-77-5 | ND | 0.4 | PASS |
| Bifenthrin | 82657-04-03 | ND | 0.2 | PASS | Methyl parathion | 298-00-0 | ND | 0.2 | PASS |
| Boscalid | 188425-85-6 | ND | 0.4 | PASS | MGK-264 | 113-48-4 | ND | 0.2 | PASS |
| Carbaryl | 63-25-2 | ND | 0.2 | PASS | Myclobutanil | 88671-89-0 | ND | 0.2 | PASS |
| Carbofuran | 1563-66-2 | ND | 0.2 | PASS | Naled | 300-76-5 | ND | 0.5 | PASS |
| Chlorantraniliprole | 500008-45-7 | ND | 0.2 | PASS | Oxamyl | 23135-22-0 | ND | 1 | PASS |
| Chlorfenapyr | 122453-73-0 | ND | 1 | PASS | Paclobutrazol | 76738-62-0 | ND | 0.4 | PASS |
| Chlorpyrifos | 2921-88-2 | ND | 0.2 | PASS | Permethrins | 52645-53-1 | ND | 0.2 | PASS |
| Clofentezine | 74115-24-5 | ND | 0.2 | PASS | Phosmet | 0732-11-6 | ND | 0.2 | PASS |
| Cyfluthrin | 68359-37-5 | ND | 1 | PASS | Piperonyl Butoxide | 51-03-6 | ND | 2 | PASS |
| Cypermethrin | 52315-07-08 | ND | 1 | PASS | Prallethrin | 23031-36-9 | ND | 0.2 | PASS |
| Daminozide | 1596-84-5 | ND | 1 | PASS | Propiconazole | 60207-90-1 | ND | 0.4 | PASS |
| Dichlorvos | 62-73-7 | ND | 0.1 | PASS | Propoxur | 114-26-1 | ND | 0.2 | PASS |
| Diazinon | 333-41-5 | ND | 0.2 | PASS | Pyrethrins | 8003-34-7 | ND | 1 | PASS |
| Dimethoate | 60-51-5 | ND | 0.2 | PASS | Pyridaben | 96489-71-3 | ND | 0.2 | PASS |
| Ethoprophos | 13194-48-4 | ND | 0.2 | PASS | Spinosad | 168316-95-8 | ND | 0.2 | PASS |
| Etofenprox | 80844-07-01 | ND | 0.4 | PASS | Spiromesifen | 283594-90-1 | ND | 0.2 | PASS |
| Etoxazole | 153233-91-1 | ND | 0.2 | PASS | Spirotetramat | 203313-25-1 | ND | 0.2 | PASS |
| Fenoxycarb | 72490-01-08 | ND | 0.2 | PASS | Spiroxamine | 118134-30-8 | ND | 0.4 | PASS |
| Fenpyroximate | 134098-61-6 | ND | 0.4 | PASS | Tebuconazole | 80443-41-0 | ND | 0.4 | PASS |
| Fipronil | 120068-37-3 | ND | 0.4 | PASS | Thiacloprid | 111988-49-9 | ND | 0.2 | PASS |
| Flonicamid | 158062-67-0 | ND | 1 | PASS | Thiamethoxam | 153719-23-4 | ND | 0.2 | PASS |
| Fludioxonil | 131341-86-1 | ND | 0.4 | PASS | Trifloxystrobin | 141517-21-7 | ND | 0.2 | PASS |
| Hexythiazox | 78587-05-0 | ND | 1 | PASS | | | | | |

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CERTIFICATE OF ANALYSIS

Mycotoxin Analysis

Status: PASS

| | | | |
|----------------------|------------|---------------------|--------------------|
| Sample ID: | HP23298-5 | Description: | Angstromplex + CBG |
| Testing Date: | 10/31/2023 | Reviewed By: | Cameron Cheyne |

Method: ACL.AM.004 Analysis performed using Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

| Analyte | Result (ppb) | Action Level (ppb) | Status |
|-----------------|--------------|---------------------|--------|
| AflatoxinB1 | ND | See Total Aflatoxin | -- |
| AflatoxinB2 | ND | See Total Aflatoxin | -- |
| AflatoxinG1 | ND | See Total Aflatoxin | -- |
| AflatoxinG2 | ND | See Total Aflatoxin | -- |
| Total Aflatoxin | 0 | 20 | PASS |
| Ochratoxin A | ND | 20 | PASS |

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