

SAMPLE NAME: Stratos 300 Full Spectrum

Infused, Colorado Infused

CULTIVATOR / MANUFACTURER
Business Name:
License Number:
Address:
DISTRIBUTOR / TESTED FOR
Business Name: Ashford
 International LLC
License Number:
Address:
SAMPLE DETAIL
Batch Number: 2298001
Sample ID: 221001H005
Date of Sampling: 10/01/2022
Time of Sampling: 7:49 a.m.
Sampler Name:
Sampler Company:
Date Collected: 10/01/2022
Date Received: 10/02/2022
Batch Size:
Sample Size: 1.0 units
Unit Mass: 6 grams per Unit
Serving Size: 0.2 grams per Serving


Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY
Total THC: 5.574 mg/unit

Total CBD: 283.326 mg/unit

Sum of Cannabinoids: 315.084 mg/unit

Total Cannabinoids: 315.084 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 = Δ^9 -THC + (THCa (0.877))

Total CBD = CBD + (CBDa (0.877))





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

Total Cannabinoids = (Δ^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) + Δ^8 -THC + CBL + CBN

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 0.0055%



 **α-Bisabolol 0.055 mg/g**
SAFETY ANALYSIS - SUMMARY
Pesticides:  **PASS**
Mycotoxins:  **PASS**
Residual Solvents:  **PASS**
Heavy Metals:  **PASS**
Microbiology (PCR):  **PASS**
Microbiology (Plating):  **PASS**

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: 6 CCR 1010-21 Colorado Wholesale Food, Industrial Hemp, and Shellfish Regulations; where applicable

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), too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)



Approved by: Josh Wurzer
 Job Title: President
 Date: 11/08/2022



Cannabinoid Analysis

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

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

TOTAL THC: 5.574 mg/unit

Total THC (Δ^9 -THC+0.877*THCa)

TOTAL CBD: 283.326 mg/unit

Total CBD (CBD+0.877*CBDA)

TOTAL CANNABINOIDS: 315.084 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ^8 -THC + CBL + CBN

TOTAL CBG: 5.976 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 15.642 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 1.668 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 10/03/2022

| COMPOUND | LOD/LOQ (mg/g) | MEASUREMENT UNCERTAINTY (mg/g) | RESULT (mg/g) | RESULT (%) |
|----------------------------|----------------|--------------------------------|--------------------|----------------|
| CBD | 0.004 / 0.011 | ±1.7613 | 47.221 | 4.7221 |
| CBC | 0.003 / 0.010 | ±0.0839 | 2.607 | 0.2607 |
| CBG | 0.002 / 0.006 | ±0.0483 | 0.996 | 0.0996 |
| Δ^9 -THC | 0.002 / 0.014 | ±0.0510 | 0.929 | 0.0929 |
| CBN | 0.001 / 0.007 | ±0.0104 | 0.363 | 0.0363 |
| CBDV | 0.002 / 0.012 | ±0.0113 | 0.278 | 0.0278 |
| CBL | 0.003 / 0.010 | ±0.0044 | 0.120 | 0.0120 |
| Δ^8 -THC | 0.01 / 0.02 | N/A | ND | ND |
| THCa | 0.001 / 0.005 | N/A | ND | ND |
| THCV | 0.002 / 0.012 | N/A | ND | ND |
| THCVa | 0.002 / 0.019 | N/A | ND | ND |
| CBDA | 0.001 / 0.026 | N/A | ND | ND |
| CBDVa | 0.001 / 0.018 | N/A | ND | ND |
| CBGa | 0.002 / 0.007 | N/A | ND | ND |
| CBCa | 0.001 / 0.015 | N/A | ND | ND |
| Total THC | | ±0.0510 | 0.929 | 0.0929 |
| SUM OF CANNABINOIDS | | | 52.514 mg/g | 5.2514% |

Unit Mass: 6 grams per Unit / Serving Size: 0.2 grams per Serving

| | |
|---------------------------------|-------------------|
| Δ^9 -THC per Unit | 5.574 mg/unit |
| Δ^9 -THC per Serving | 0.186 mg/serving |
| Total THC per Unit | 5.574 mg/unit |
| Total THC per Serving | 0.186 mg/serving |
| CBD per Unit | 283.326 mg/unit |
| CBD per Serving | 9.444 mg/serving |
| Total CBD per Unit | 283.326 mg/unit |
| Total CBD per Serving | 9.444 mg/serving |
| Sum of Cannabinoids per Unit | 315.084 mg/unit |
| Sum of Cannabinoids per Serving | 10.503 mg/serving |
| Total Cannabinoids per Unit | 315.084 mg/unit |
| Total Cannabinoids per Serving | 10.503 mg/serving |



Terpenoid Analysis

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

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

1 α -Bisabolol

A sesquiterpene alcohol with a fragrance that can be described as floral, peppery, sweet and clean. Found in chamomile, figwort, yarrow, skullcaps, lavender, ironwort, germander...etc.

TERPENOID TEST RESULTS - 10/03/2022

| COMPOUND | LOD/LOQ (mg/g) | MEASUREMENT UNCERTAINTY (mg/g) | RESULT (mg/g) | RESULT (%) |
|---------------------------|----------------|--------------------------------|-------------------|----------------|
| α -Bisabolol | 0.008 / 0.026 | ± 0.0023 | 0.055 | 0.0055 |
| α -Pinene | 0.005 / 0.017 | N/A | ND | ND |
| Camphene | 0.005 / 0.015 | N/A | ND | ND |
| Sabinene | 0.004 / 0.014 | N/A | ND | ND |
| β -Pinene | 0.004 / 0.014 | N/A | ND | ND |
| Myrcene | 0.008 / 0.025 | N/A | ND | ND |
| α -Phellandrene | 0.006 / 0.020 | N/A | ND | ND |
| Δ^3 -Carene | 0.005 / 0.018 | N/A | ND | ND |
| α -Terpinene | 0.005 / 0.017 | N/A | ND | ND |
| p-Cymene | 0.005 / 0.016 | N/A | ND | ND |
| Limonene | 0.005 / 0.016 | N/A | ND | ND |
| Eucalyptol | 0.006 / 0.018 | N/A | ND | ND |
| β -Ocimene | 0.006 / 0.020 | N/A | ND | ND |
| γ -Terpinene | 0.006 / 0.018 | N/A | ND | ND |
| Sabinene Hydrate | 0.006 / 0.022 | N/A | ND | ND |
| Fenchone | 0.009 / 0.028 | N/A | ND | ND |
| Terpinolene | 0.008 / 0.026 | N/A | ND | ND |
| Linalool | 0.009 / 0.032 | N/A | ND | ND |
| Fenchol | 0.010 / 0.034 | N/A | ND | ND |
| Isopulegol | 0.005 / 0.016 | N/A | ND | ND |
| Camphor | 0.006 / 0.019 | N/A | ND | ND |
| Isoborneol | 0.004 / 0.012 | N/A | ND | ND |
| Borneol | 0.005 / 0.016 | N/A | ND | ND |
| Menthol | 0.008 / 0.025 | N/A | ND | ND |
| Terpineol | 0.009 / 0.031 | N/A | ND | ND |
| Nerol | 0.003 / 0.011 | N/A | ND | ND |
| Citronellol | 0.003 / 0.010 | N/A | ND | ND |
| Pulegone | 0.003 / 0.011 | N/A | ND | ND |
| Geraniol | 0.002 / 0.007 | N/A | ND | ND |
| Geranyl Acetate | 0.004 / 0.014 | N/A | ND | ND |
| α -Cedrene | 0.005 / 0.016 | N/A | ND | ND |
| β -Caryophyllene | 0.004 / 0.012 | N/A | ND | ND |
| trans- β -Farnesene | 0.008 / 0.025 | N/A | ND | ND |
| α -Humulene | 0.009 / 0.029 | N/A | ND | ND |
| Valencene | 0.009 / 0.030 | N/A | ND | ND |
| Nerolidol | 0.006 / 0.019 | N/A | ND | ND |
| Caryophyllene Oxide | 0.010 / 0.033 | N/A | ND | ND |
| Guaiol | 0.009 / 0.030 | N/A | ND | ND |
| Cedrol | 0.008 / 0.027 | N/A | ND | ND |
| TOTAL TERPENOIDS | | | 0.055 mg/g | 0.0055% |



Pesticide Analysis

PESTICIDE TEST RESULTS - 10/03/2022 ✔ PASS

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

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---------------------|----------------|---------------------|--------------------------------|---------------|--------|
| Abamectin | 0.032 / 0.097 | 0.25 | N/A | ND | PASS |
| Acephate | 0.006 / 0.018 | 0.05 | N/A | ND | PASS |
| Acequinocyl | 0.009 / 0.027 | ≥ LOQ | N/A | ND | PASS |
| Acetamiprid | 0.016 / 0.049 | 0.05 | N/A | ND | PASS |
| Aldicarb | 0.030 / 0.090 | 0.5 | N/A | ND | PASS |
| Allethrin | 0.030 / 0.092 | 0.1 | N/A | ND | PASS |
| Atrazine | 0.006 / 0.019 | ≥ LOQ | N/A | ND | PASS |
| Azadirachtin | 0.082 / 0.248 | 0.5 | N/A | ND | PASS |
| Azoxystrobin | 0.003 / 0.009 | 0.01 | N/A | ND | PASS |
| Benzovindiflupyr | 0.003 / 0.009 | 0.01 | N/A | ND | PASS |
| Bifenazate | 0.003 / 0.009 | 0.01 | N/A | ND | PASS |
| Bifenthrin | 0.021 / 0.064 | ≥ LOQ | N/A | ND | PASS |
| Boscalid | 0.003 / 0.009 | 0.01 | N/A | ND | PASS |
| Buprofezin | 0.006 / 0.019 | ≥ LOQ | N/A | ND | PASS |
| Carbaryl | 0.007 / 0.020 | 0.025 | N/A | ND | PASS |
| Carbofuran | 0.003 / 0.008 | 0.01 | N/A | ND | PASS |
| Chlorantraniliprole | 0.006 / 0.018 | ≥ LOQ | N/A | ND | PASS |
| Chlorfenapyr* | 0.005 / 0.015 | 1.5 | N/A | ND | PASS |
| Chlorpyrifos | 0.013 / 0.039 | 0.5 | N/A | ND | PASS |
| Clofentezine | 0.003 / 0.009 | 0.01 | N/A | ND | PASS |
| Clothianidin | 0.008 / 0.025 | 0.025 | N/A | ND | PASS |
| Coumaphos | 0.003 / 0.010 | 0.01 | N/A | ND | PASS |
| Cyantraniliprole | 0.003 / 0.010 | 0.01 | N/A | ND | PASS |
| Cyfluthrin | 0.052 / 0.159 | ≥ LOQ | N/A | ND | PASS |
| Cypermethrin | 0.051 / 0.153 | ≥ LOQ | N/A | ND | PASS |
| Cyprodinil | 0.003 / 0.008 | 0.01 | N/A | ND | PASS |
| Daminozide | 0.026 / 0.077 | ≥ LOQ | N/A | ND | PASS |
| Deltamethrin | 0.059 / 0.180 | ≥ LOQ | N/A | ND | PASS |
| Diazinon | 0.006 / 0.017 | ≥ LOQ | N/A | ND | PASS |
| Dichlorvos (DDVP) | 0.012 / 0.038 | 0.05 | N/A | ND | PASS |
| Dimethoate | 0.003 / 0.009 | 0.01 | N/A | ND | PASS |
| Dimethomorph | 0.016 / 0.050 | ≥ LOQ | N/A | ND | PASS |
| Dinotefuran | 0.010 / 0.030 | 0.05 | N/A | ND | PASS |
| Diuron | 0.013 / 0.040 | ≥ LOQ | N/A | ND | PASS |
| Dodemorph | 0.012 / 0.035 | ≥ LOQ | N/A | ND | PASS |
| Endosulfan sulfate | 0.016 / 0.048 | 2.5 | N/A | ND | PASS |
| Endosulfan-α* | 0.004 / 0.014 | 2.5 | N/A | ND | PASS |
| Endosulfan-β* | 0.006 / 0.019 | 2.5 | N/A | ND | PASS |
| Ethoprophos | 0.003 / 0.009 | 0.01 | N/A | ND | PASS |
| Etofenprox | 0.014 / 0.042 | ≥ LOQ | N/A | ND | PASS |
| Etoxazole | 0.007 / 0.020 | ≥ LOQ | N/A | ND | PASS |

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Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 10/03/2022 *continued* ✔ **PASS**

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|--------------------------|----------------|---------------------|--------------------------------|---------------|--------|
| Etridiazole* | 0.002 / 0.005 | 0.15 | N/A | ND | PASS |
| Fenhexamid | 0.003 / 0.008 | ≥ LOQ | N/A | ND | PASS |
| Fenoxycarb | 0.003 / 0.010 | 0.01 | N/A | ND | PASS |
| Fenpyroximate | 0.007 / 0.020 | ≥ LOQ | N/A | ND | PASS |
| Fensulfothion | 0.003 / 0.010 | 0.01 | N/A | ND | PASS |
| Fenthion | 0.003 / 0.010 | 0.01 | N/A | ND | PASS |
| Fenvalerate | 0.033 / 0.099 | ≥ LOQ | N/A | ND | PASS |
| Fipronil | 0.003 / 0.010 | 0.01 | N/A | ND | PASS |
| Flonicamid | 0.007 / 0.022 | 0.025 | N/A | ND | PASS |
| Fludioxonil | 0.003 / 0.010 | 0.01 | N/A | ND | PASS |
| Fluopyram | 0.003 / 0.009 | 0.01 | N/A | ND | PASS |
| Hexythiazox | 0.003 / 0.010 | ≥ LOQ | N/A | ND | PASS |
| Imazalil | 0.003 / 0.009 | 0.01 | N/A | ND | PASS |
| Imidacloprid | 0.003 / 0.010 | 0.01 | N/A | ND | PASS |
| Iprodione | 0.077 / 0.233 | 0.5 | N/A | ND | PASS |
| Kinoprene | 0.077 / 0.233 | 1.25 | N/A | ND | PASS |
| Kresoxim-methyl | 0.006 / 0.019 | 0.15 | N/A | ND | PASS |
| λ-Cyhalothrin | 0.068 / 0.206 | ≥ LOQ | N/A | ND | PASS |
| Malathion | 0.003 / 0.009 | 0.01 | N/A | ND | PASS |
| Metalaxyl | 0.003 / 0.010 | 0.01 | N/A | ND | PASS |
| Methiocarb | 0.003 / 0.008 | 0.01 | N/A | ND | PASS |
| Methomyl | 0.008 / 0.025 | 0.025 | N/A | ND | PASS |
| Methoprene | 0.172 / 0.521 | ≥ LOQ | N/A | ND | PASS |
| Mevinphos | 0.008 / 0.024 | 0.025 | N/A | ND | PASS |
| MGK-264 | 0.015 / 0.047 | ≥ LOQ | N/A | ND | PASS |
| Myclobutanil | 0.003 / 0.009 | 0.01 | N/A | ND | PASS |
| Naled | 0.021 / 0.064 | ≥ LOQ | N/A | ND | PASS |
| Novaluron | 0.002 / 0.005 | 0.025 | N/A | ND | PASS |
| Oxamyl | 0.017 / 0.051 | 1.5 | N/A | ND | PASS |
| Paclobutrazol | 0.003 / 0.010 | 0.01 | N/A | ND | PASS |
| Parathion-methyl | 0.016 / 0.050 | ≥ LOQ | N/A | ND | PASS |
| Pentachloronitrobenzene* | 0.004 / 0.012 | ≥ LOQ | N/A | ND | PASS |
| Permethrin | 0.056 / 0.168 | ≥ LOQ | N/A | ND | PASS |
| Phenothrin | 0.016 / 0.047 | ≥ LOQ | N/A | ND | PASS |
| Phosmet | 0.007 / 0.020 | ≥ LOQ | N/A | ND | PASS |
| Piperonyl Butoxide | 0.010 / 0.029 | 1.25 | N/A | ND | PASS |
| Pirimicarb | 0.003 / 0.009 | 0.01 | N/A | ND | PASS |
| Prallethrin | 0.015 / 0.046 | ≥ LOQ | N/A | ND | PASS |
| Propiconazole | 0.027 / 0.080 | ≥ LOQ | N/A | ND | PASS |
| Propoxur | 0.003 / 0.008 | 0.01 | N/A | ND | PASS |
| Pyraclostrobin | 0.003 / 0.010 | 0.01 | N/A | ND | PASS |

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Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 10/03/2022 *continued* ✔ PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|--------------------|----------------|---------------------|--------------------------------|---------------|--------|
| Pyrethrins | 0.016 / 0.049 | ≥ LOQ | N/A | ND | PASS |
| Pyridaben | 0.005 / 0.017 | 0.02 | N/A | ND | PASS |
| Pyriproxyfen | 0.003 / 0.009 | ≥ LOQ | N/A | ND | PASS |
| Resmethrin | 0.013 / 0.039 | 0.05 | N/A | ND | PASS |
| Spinetoram | 0.003 / 0.010 | 0.01 | N/A | ND | PASS |
| Spinosad | 0.003 / 0.010 | 0.01 | N/A | ND | PASS |
| Spirodiclofen | 0.031 / 0.093 | ≥ LOQ | N/A | ND | PASS |
| Spiromesifen | 0.016 / 0.050 | ≥ LOQ | N/A | ND | PASS |
| Spirotetramat | 0.003 / 0.010 | 0.01 | N/A | ND | PASS |
| Spiroxamine | 0.020 / 0.062 | ≥ LOQ | N/A | ND | PASS |
| Tebuconazole | 0.003 / 0.010 | 0.01 | N/A | ND | PASS |
| Tebufozide | 0.003 / 0.008 | 0.01 | N/A | ND | PASS |
| Teflubenzuron | 0.007 / 0.022 | 0.025 | N/A | ND | PASS |
| Tetrachlorvinphos | 0.003 / 0.008 | 0.01 | N/A | ND | PASS |
| Tetramethrin | 0.021 / 0.063 | ≥ LOQ | N/A | ND | PASS |
| Thiabendazole | 0.006 / 0.020 | ≥ LOQ | N/A | ND | PASS |
| Thiacloprid | 0.003 / 0.009 | 0.01 | N/A | ND | PASS |
| Thiamethoxam | 0.003 / 0.010 | 0.01 | N/A | ND | PASS |
| Thiophanate-methyl | 0.013 / 0.040 | ≥ LOQ | N/A | ND | PASS |
| Trifloxystrobin | 0.003 / 0.009 | 0.01 | N/A | ND | PASS |



Mycotoxin Analysis

MYCOTOXIN TEST RESULTS - 10/03/2022 ✔ PASS

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

| COMPOUND | LOD/LOQ (µg/kg) | ACTION LIMIT (µg/kg) | MEASUREMENT UNCERTAINTY (µg/kg) | RESULT (µg/kg) | RESULT |
|-----------------|-----------------|----------------------|---------------------------------|----------------|--------|
| Aflatoxin B1 | 1.6 / 5.0 | 5 | N/A | ND | PASS |
| Aflatoxin B2 | 1.4 / 4.1 | | N/A | ND | |
| Aflatoxin G1 | 1.6 / 4.9 | | N/A | ND | |
| Aflatoxin G2 | 1.6 / 5.0 | | N/A | ND | |
| Total Aflatoxin | | 20 | | ND | PASS |
| Ochratoxin A | 1.6 / 5.0 | 5 | N/A | ND | PASS |



Residual Solvents Analysis

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

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

Total Butanes = n-Butane + 2-Methylpropane (Isobutane)
Total Heptanes = 2,2-Dimethylpentane (Neoheptane) + 2,3-Dimethylpentane + 2,4-Dimethylpentane + 3,3-Dimethylpentane + 2,2,3-Trimethylbutane (Triptane) + 2-Methylhexane (Isoheptane) + 3-Methylhexane + 3-Ethylpentane + n-Heptane
Total Xylenes = 1,2-Dimethylbenzene (o-Xylene) + 1,3-Dimethylbenzene (m-Xylene) / 1,4-Dimethylbenzene (p-Xylene)

Deviations¹ see last page

RESIDUAL SOLVENTS TEST RESULTS - 10/07/2022

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---|----------------|---------------------|--------------------------------|---------------|--------|
| Propane | 0.234 / 0.781 | 1000 | N/A | ND | PASS |
| 2-Methylpropane (Isobutane) | 0.052 / 0.173 | | N/A | ND | |
| n-Butane | 0.019 / 0.063 | | ±0.0332 | 0.801 | |
| Total Butanes | | 1000 | | 0.801 | PASS |
| n-Pentane | 0.310 / 1.033 | 1000 | N/A | ND | PASS |
| n-Hexane | 0.110 / 0.366 | 60 | N/A | ND | PASS |
| 2,2-Dimethylpentane (Neoheptane) | 0.493 / 1.642 | | N/A | ND | |
| 2,3-Dimethylpentane | 1.009 / 3.365 | | N/A | ND | |
| 2,4-Dimethylpentane | 0.737 / 2.458 | | N/A | ND | |
| 3,3-Dimethylpentane | 0.198 / 0.660 | | N/A | ND | |
| 2,2,3-Trimethylbutane (Triptane) | 0.521 / 1.738 | | N/A | ND | |
| 2-Methylhexane (Isoheptane) | 0.610 / 2.034 | | N/A | ND | |
| 3-Methylhexane | 0.235 / 0.785 | | N/A | ND | |
| 3-Ethylpentane | 0.304 / 1.012 | | N/A | ND | |
| n-Heptane | 13.12 / 43.72 | | N/A | ND | |
| Total Heptanes | | 1000 | | ND | PASS |
| Benzene | 0.089 / 0.295 | 2 | N/A | ND | PASS |
| Toluene | 0.115 / 0.382 | 180 | N/A | ND | PASS |
| 1,3-Dimethylbenzene / 1,4-Dimethylbenzene | 0.451 / 1.502 | | N/A | ND | |
| 1,2-Dimethylbenzene (o-Xylene) | 0.387 / 1.289 | | N/A | ND | |
| Total Xylenes | | 430 | | ND | PASS |
| Methanol | 5.534 / 16.77 | 600 | N/A | ND | PASS |
| Ethanol | 8.984 / 27.23 | | ±22.128 | 1418.44 | |
| 2-Propanol (Isopropyl Alcohol) | 8.421 / 25.52 | 1000 | N/A | ND | PASS |
| Acetone | 9.510 / 28.82 | 1000 | N/A | ND | PASS |

Heavy Metals Analysis

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 - 10/07/2022

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|----------|----------------|---------------------|--------------------------------|---------------|--------|
| Arsenic | 0.02 / 0.1 | 1.5 | N/A | ND | PASS |
| Cadmium | 0.02 / 0.05 | 0.5 | N/A | ND | PASS |
| Lead | 0.04 / 0.1 | 0.5 | N/A | ND | PASS |
| Mercury | 0.002 / 0.01 | 1.5 | N/A | ND | PASS |



Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

Method: QSP 1221 - Analysis of Microbiological Contaminants

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

Method: QSP 6794 - Plating with 3M™ Petrifilm™

MICROBIOLOGY TEST RESULTS (PCR) - 10/05/2022 ✔ PASS

| COMPOUND | ACTION LIMIT (cfu/g) | RESULT (cfu/g) | RESULT |
|---|----------------------|----------------|--------|
| Shiga toxin-producing <i>Escherichia coli</i> | Not Detected in 1g | ND | PASS |
| <i>Salmonella</i> spp. | Not Detected in 1g | ND | PASS |
| <i>Listeria monocytogenes</i> | | ND | |
| Bile-Tolerant Gram-Negative Bacteria | | ND | |

MICROBIOLOGY TEST RESULTS (PLATING) - 10/05/2022 ✔ PASS

| COMPOUND | ACTION LIMIT (cfu/g) | RESULT (cfu/g) | RESULT |
|------------------------|----------------------|----------------|--------|
| Total Aerobic Bacteria | 10000 | ND | PASS |
| Total Yeast and Mold | 1000 | ND | PASS |
| Coliforms | 100 | ND | PASS |

NOTES

CoA Amended Update: Order Details-Action Limits

1. Deviations: Action Limit Removed from Ethanol