# Hemp Quality Assurance Testing
# CERTIFICATE OF ANALYSIS

**DATE ISSUED 11/16/2020**

## SAMPLE NAME: cbdMD Tincture 60 mL Berry 1500 mg

Infused, Non-Inhalable

### CULTIVATOR / MANUFACTURER

**Business Name:**
**License Number:**
**Address:**

### DISTRIBUTOR

**Business Name:** cbdMD
**License Number:**
**Address:**

### SAMPLE DETAIL

**Batch Number:** 03161Q5
**Sample ID:** 201113S010

**Date Collected:** 11/13/2020
**Date Received:** 11/13/2020
**Batch Size:**
**Sample Size:** 1.0 units
**Unit Mass:** 60 milliliters per Unit
**Serving Size:** 1 milliliters per Serving

Scan QR code to verify authenticity of results.

## CANNABINOID ANALYSIS - SUMMARY

**Total THC:** Not Detected

**Total CBD:** 1732.440 mg/unit

**Sum of Cannabinoids:** 1745.640 mg/unit

**Total Cannabinoids:** 1745.640 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 = Δ9THC + (THCa (0.877))
Total CBD = CBD + (CBDa (0.877))
Sum of Cannabinoids = Δ9THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ8THC + CBL + CBN
Total Cannabinoids = (Δ9THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBDV+0.877*CBDVa) + Δ8THC + CBL + CBN

**Moisture:** NT

**Density:** 0.9493 g/mL

**Viscosity:** NT

## SAFETY ANALYSIS - SUMMARY

**Δ9THC per Unit:** PASS
**Foreign Material:** NT
**Water Activity:** NT
**Vitamin E Acetate:** NT

**Pesticides:** PASS
**Mycotoxins:** PASS
**Residual Solvents:** PASS

**Heavy Metals:** PASS
**Microbial Impurities (PCR):** PASS
**Microbial Impurities (Plating):** ND

## TERPENOID ANALYSIS - SUMMARY

36 TESTED, TOP 3 HIGHLIGHTED

- Limonene 0.82 mg/g

For quality assurance purposes. Not a Pre-Harvest 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:** California Code of Regulations Title 16 Effect Date January 16, 2019. Authority: Section 26013, Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

**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)

LQC verified by: Randi Vuong
Date: 11/16/2020

Approved by: Josh Wurzer, President
Date: 11/16/2020


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## 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: Not Detected

Total THC (Δ9THC+0.877*THCa)

### TOTAL CBD: 1732.440 mg/unit

Total CBD (CBD+0.877*CBDa)

### TOTAL CANNABINOIDS: 1745.640 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ8THC + CBL + CBN

### TOTAL CBG: 13.200 mg/unit

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: <LOQ

Total CBDV (CBDV+0.877*CBDVa)

### CANNABINOID TEST RESULTS - 11/16/2020

| COMPOUND | LOD/LOQ (mg/mL) | MEASUREMENT UNCERTAINTY (mg/mL) | RESULT (mg/mL) | RESULT (%) |
|---|---|---|---|---|
| CBD | *0.080 / 0.220* | *±1.3831* | 28.874 | 3.0416 |
| CBG | *0.040 / 0.100* | *±0.0137* | 0.220 | 0.0232 |
| CBDV | *0.040 / 0.140* | *N/A* | <LOQ | <LOQ |
| Δ9THC | *0.040 / 0.100* | *N/A* | ND | ND |
| Δ8THC | *0.20 / 0.40* | *N/A* | ND | ND |
| THCa | *0.020 / 0.040* | *N/A* | ND | ND |
| THCV | *0.040 / 0.160* | *N/A* | ND | ND |
| THCVa | *0.040 / 0.100* | *N/A* | ND | ND |
| CBDa | *0.020 / 0.060* | *N/A* | ND | ND |
| CBDVa | *0.020 / 0.060* | *N/A* | ND | ND |
| CBGa | *0.040 / 0.120* | *N/A* | ND | ND |
| CBL | *0.060 / 0.160* | *N/A* | ND | ND |
| CBN | *0.020 / 0.080* | *N/A* | ND | ND |
| CBC | *0.060 / 0.200* | *N/A* | ND | ND |
| CBCa | *0.020 / 0.080* | *N/A* | ND | ND |
| **SUM OF CANNABINOIDS** | | | 29.094 mg/mL | 3.0648% |

### Unit Mass: 60 milliliters per Unit / Serving Size: 1 milliliters per Serving

| | | | |
|---|---|---|---|
| Δ9THC per Unit | *1100 per-package limit* | ND | PASS |
| Δ9THC per Serving | | ND | |
| Total THC per Unit | | ND | |
| Total THC per Serving | | ND | |
| CBD per Unit | | 1732.440 mg/unit | |
| CBD per Serving | | 28.874 mg/serving | |
| Total CBD per Unit | | 1732.440 mg/unit | |
| Total CBD per Serving | | 28.874 mg/serving | |
| Sum of Cannabinoids per Unit | | 1745.640 mg/unit | |
| Sum of Cannabinoids per Serving | | 29.094 mg/serving | |
| Total Cannabinoids per Unit | | 1745.640 mg/unit | |
| Total Cannabinoids per Serving | | 29.094 mg/serving | |

| MOISTURE TEST RESULT | DENSITY TEST RESULT | VISCOSITY TEST RESULT |
|---|---|---|
| Not Tested | 0.9493 g/mL<br>Tested 11/16/2020<br>**Method:** QSP 7870 - Sample Preparation | Not Tested |


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## Terpenoid Analysis

Terpene analysis utilizing gas chromatography-flame ionization detection (GC-FID). Terpenes are the aromatic compounds that endow cannabis with their unique scent and effect. Following are the primary terpenes detected.

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

### 1 Limonene

A monoterpene with a fragrance that can be described as orangey, citrusy, sweet and tart. It is most commonly found in nature as D-Limonene and is a primary contributor to the distinct scent of orange peels, from which it is commonly derived. Found in numerous pines, red maple, silver maple, aspens, cottonwoods, hemlocks, sumac, cedar, junipers...etc.

**TERPENOID TEST RESULTS** - 11/16/2020

| COMPOUND | LOD/LOQ (mg/g) | MEASUREMENT UNCERTAINTY (mg/g) | RESULT (mg/g) | RESULT (%) |
|---|---|---|---|---|
| Limonene | *0.02 / 0.05* | *±0.030* | **0.82** | **0.082** |
| α Pinene | *0.03 / 0.09* | *N/A* | **ND** | **ND** |
| Camphene | *0.04 / 0.11* | *N/A* | **ND** | **ND** |
| Sabinene | *0.04 / 0.11* | *N/A* | **ND** | **ND** |
| β Pinene | *0.04 / 0.11* | *N/A* | **ND** | **ND** |
| Myrcene | *0.04 / 0.11* | *N/A* | **ND** | **ND** |
| α Phellandrene | *0.05 / 0.1* | *N/A* | **ND** | **ND** |
| 3 Carene | *0.04 / 0.1* | *N/A* | **ND** | **ND** |
| α Terpinene | *0.04 / 0.1* | *N/A* | **ND** | **ND** |
| Eucalyptol | *0.03 / 0.08* | *N/A* | **ND** | **ND** |
| Ocimene | *0.03 / 0.09* | *N/A* | **ND** | **ND** |
| γ Terpinene | *0.04 / 0.1* | *N/A* | **ND** | **ND** |
| Sabinene Hydrate | *0.02 / 0.07* | *N/A* | **ND** | **ND** |
| Fenchone | *0.04 / 0.12* | *N/A* | **ND** | **ND** |
| Terpinolene | *0.03 / 0.09* | *N/A* | **ND** | **ND** |
| Linalool | *0.03 / 0.08* | *N/A* | **ND** | **ND** |
| Fenchol | *0.03 / 0.09* | *N/A* | **ND** | **ND** |
| (-)-Isopulegol | *0.02 / 0.05* | *N/A* | **ND** | **ND** |
| Camphor | *0.1 / 0.2* | *N/A* | **ND** | **ND** |
| Isoborneol | *0.04 / 0.1* | *N/A* | **ND** | **ND** |
| Borneol | *0.1 / 0.2* | *N/A* | **ND** | **ND** |
| Menthol | *0.03 / 0.09* | *N/A* | **ND** | **ND** |
| Terpineol | *0.02 / 0.07* | *N/A* | **ND** | **ND** |
| Nerol | *0.03 / 0.09* | *N/A* | **ND** | **ND** |
| R-(+)-Pulegone | *0.03 / 0.09* | *N/A* | **ND** | **ND** |
| Geraniol | *0.02 / 0.07* | *N/A* | **ND** | **ND** |
| Geranyl Acetate | *0.02 / 0.06* | *N/A* | **ND** | **ND** |
| α Cedrene | *0.02 / 0.07* | *N/A* | **ND** | **ND** |
| β Caryophyllene | *0.02 / 0.07* | *N/A* | **ND** | **ND** |
| α Humulene | *0.02 / 0.05* | *N/A* | **ND** | **ND** |
| Valencene | *0.01 / 0.03* | *N/A* | **ND** | **ND** |
| Nerolidol | *0.3 / 0.8* | *N/A* | **ND** | **ND** |
| Caryophyllene Oxide | *0.04 / 0.11* | *N/A* | **ND** | **ND** |
| Guaiol | *0.03 / 0.09* | *N/A* | **ND** | **ND** |
| Cedrol | *0.04 / 0.11* | *N/A* | **ND** | **ND** |
| α Bisabolol | *0.02 / 0.07* | *N/A* | **ND** | **ND** |
| **TOTAL TERPENOIDS** | | | **0.82 mg/g** | **0.082%** |


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## Pesticide Analysis

### CATEGORY 1 AND 2 PESTICIDES

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

### CATEGORY 1 PESTICIDE TEST RESULTS - 11/16/2020 PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---|---|---|---|---|---|
| Aldicarb | *0.03 / 0.09* | *≥ LOD* | *N/A* | ND | PASS |
| Carbofuran | *0.01 / 0.04* | *≥ LOD* | *N/A* | ND | PASS |
| Chlordane* | *0.03 / 0.08* | *≥ LOD* | *N/A* | ND | PASS |
| Chlorfenapyr* | *0.03 / 0.10* | *≥ LOD* | *N/A* | ND | PASS |
| Chlorpyrifos | *0.02 / 0.06* | *≥ LOD* | *N/A* | ND | PASS |
| Coumaphos | *0.02 / 0.06* | *≥ LOD* | *N/A* | ND | PASS |
| Daminozide | *0.03 / 0.10* | *≥ LOD* | *N/A* | ND | PASS |
| DDVP (Dichlorvos) | *0.02 / 0.07* | *≥ LOD* | *N/A* | ND | PASS |
| Dimethoate | *0.02 / 0.07* | *≥ LOD* | *N/A* | ND | PASS |
| Ethoprop(hos) | *0.03 / 0.08* | *≥ LOD* | *N/A* | ND | PASS |
| Etofenprox | *0.02 / 0.05* | *≥ LOD* | *N/A* | ND | PASS |
| Fenoxycarb | *0.02 / 0.06* | *≥ LOD* | *N/A* | ND | PASS |
| Fipronil | *0.02 / 0.06* | *≥ LOD* | *N/A* | ND | PASS |
| Imazalil | *0.02 / 0.06* | *≥ LOD* | *N/A* | ND | PASS |
| Methiocarb | *0.02 / 0.06* | *≥ LOD* | *N/A* | ND | PASS |
| Methyl parathion | *0.03 / 0.10* | *≥ LOD* | *N/A* | ND | PASS |
| Mevinphos | *0.03 / 0.09* | *≥ LOD* | *N/A* | ND | PASS |
| Paclobutrazol | *0.02 / 0.05* | *≥ LOD* | *N/A* | ND | PASS |
| Propoxur | *0.02 / 0.06* | *≥ LOD* | *N/A* | ND | PASS |
| Spiroxamine | *0.02 / 0.05* | *≥ LOD* | *N/A* | ND | PASS |
| Thiacloprid | *0.03 / 0.07* | *≥ LOD* | *N/A* | ND | PASS |

### CATEGORY 2 PESTICIDE TEST RESULTS - 11/16/2020 PASS

| | | | | | |
|---|---|---|---|---|---|
| Abamectin | *0.03 / 0.10* | *0.3* | *N/A* | ND | PASS |
| Acephate | *0.01 / 0.04* | *5* | *N/A* | ND | PASS |
| Acequinocyl | *0.02 / 0.05* | *4* | *N/A* | ND | PASS |
| Acetamiprid | *0.02 / 0.05* | *5* | *N/A* | ND | PASS |
| Azoxystrobin | *0.01 / 0.04* | *40* | *N/A* | ND | PASS |
| Bifenazate | *0.01 / 0.02* | *5* | *N/A* | ND | PASS |
| Bifenthrin | *0.01 / 0.02* | *0.5* | *N/A* | ND | PASS |
| Boscalid | *0.02 / 0.06* | *10* | *N/A* | ND | PASS |
| Captan | *0.2 / 0.5* | *5* | *N/A* | ND | PASS |
| Carbaryl | *0.01 / 0.02* | *0.5* | *N/A* | ND | PASS |
| Chlorantraniliprole | *0.01 / 0.03* | *40* | *N/A* | ND | PASS |

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## Pesticide Analysis *Continued*

### CATEGORY 1 AND 2 PESTICIDES

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

**CATEGORY 2 PESTICIDE TEST RESULTS** - 11/16/2020 *continued* PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---|---|---|---|---|---|
| Clofentezine | 0.02 / 0.06 | 0.5 | N/A | ND | PASS |
| Cyfluthrin | 0.1 / 0.4 | 1 | N/A | ND | PASS |
| Cypermethrin | 0.1 / 0.3 | 1 | N/A | ND | PASS |
| Diazinon | 0.01 / 0.04 | 0.2 | N/A | ND | PASS |
| Dimethomorph | 0.01 / 0.03 | 20 | N/A | ND | PASS |
| Etoxazole | 0.010 / 0.028 | 1.5 | N/A | ND | PASS |
| Fenhexamid | 0.02 / 0.1 | 10 | N/A | ND | PASS |
| Fenpyroximate | 0.03 / 0.08 | 2 | N/A | ND | PASS |
| Flonicamid | 0.01 / 0.04 | 2 | N/A | ND | PASS |
| Fludioxonil | 0.03 / 0.08 | 30 | N/A | ND | PASS |
| Hexythiazox | 0.01 / 0.04 | 2 | N/A | ND | PASS |
| Imidacloprid | 0.01 / 0.04 | 3 | N/A | ND | PASS |
| Kresoxim-methyl | 0.02 / 0.07 | 1 | N/A | ND | PASS |
| Malathion | 0.02 / 0.05 | 5 | N/A | ND | PASS |
| Metalaxyl | 0.02 / 0.06 | 15 | N/A | ND | PASS |
| Methomyl | 0.03 / 0.1 | 0.1 | N/A | ND | PASS |
| Myclobutanil | 0.03 / 0.1 | 9 | N/A | ND | PASS |
| Naled | 0.03 / 0.1 | 0.5 | N/A | ND | PASS |
| Oxamyl | 0.02 / 0.06 | 0.2 | N/A | ND | PASS |
| Pentachloronitrobenzene* | 0.03 / 0.09 | 0.2 | N/A | ND | PASS |
| Permethrin | 0.03 / 0.09 | 20 | N/A | ND | PASS |
| Phosmet | 0.03 / 0.10 | 0.2 | N/A | ND | PASS |
| Piperonylbutoxide | 0.003 / 0.009 | 8 | N/A | ND | PASS |
| Prallethrin | 0.03 / 0.08 | 0.4 | N/A | ND | PASS |
| Propiconazole | 0.01 / 0.03 | 20 | N/A | ND | PASS |
| Pyrethrins | 0.03 / 0.08 | 1 | N/A | ND | PASS |
| Pyridaben | 0.006 / 0.019 | 3 | N/A | ND | PASS |
| Spinetoram | 0.02 / 0.07 | 3 | N/A | ND | PASS |
| Spinosad | 0.02 / 0.06 | 3 | N/A | ND | PASS |
| Spiromesifen | 0.02 / 0.05 | 12 | N/A | ND | PASS |
| Spirotetramat | 0.01 / 0.02 | 13 | N/A | ND | PASS |
| Tebuconazole | 0.02 / 0.07 | 2 | N/A | ND | PASS |
| Thiamethoxam | 0.03 / 0.08 | 4.5 | N/A | ND | PASS |
| Trifloxystrobin | 0.01 / 0.03 | 30 | N/A | ND | PASS |


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## Mycotoxin Analysis

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

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

**MYCOTOXIN TEST RESULTS** - 11/15/2020 PASS

| COMPOUND | LOD/LOQ (µg/kg) | ACTION LIMIT (µg/kg) | MEASUREMENT UNCERTAINTY (µg/kg) | RESULT (µg/kg) | RESULT |
|---|---|---|---|---|---|
| Aflatoxin B1 | 2.0 / 6.0 | 20 | N/A | ND | PASS |
| Aflatoxin B2 | 1.8 / 5.6 | 20 | N/A | ND | PASS |
| Aflatoxin G1 | 1.0 / 3.1 | 20 | N/A | ND | PASS |
| Aflatoxin G2 | 1.2 / 3.5 | 20 | N/A | ND | PASS |
| Total Aflatoxin | | 20 | | ND | PASS |
| Ochratoxin A | 6.3 / 19.2 | 20 | N/A | ND | PASS |

## Residual Solvents Analysis

**CATEGORY 1 AND 2 RESIDUAL SOLVENTS**
Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

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

**CATEGORY 1 RESIDUAL SOLVENTS TEST RESULTS** - 11/15/2020 PASS

| 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 |
| Ethylene Oxide | 0.1 / 0.4 | 1 | N/A | ND | PASS |
| Methylene chloride | 0.3 / 0.9 | 1 | N/A | ND | PASS |
| Trichloroethylene | 0.1 / 0.3 | 1 | N/A | ND | PASS |

**CATEGORY 2 RESIDUAL SOLVENTS TEST RESULTS** - 11/15/2020 PASS

| | | | | | |
|---|---|---|---|---|---|
| Acetone | 20 / 50 | 5000 | N/A | ND | PASS |
| Acetonitrile | 2 / 7 | 410 | N/A | ND | PASS |
| Butane | 10 / 50 | 5000 | N/A | ND | PASS |
| Ethanol | 20 / 50 | 5000 | N/A | ND | PASS |
| Ethyl acetate | 20 / 60 | 5000 | N/A | ND | PASS |
| Ethyl ether | 20 / 50 | 5000 | N/A | ND | PASS |
| Heptane | 20 / 60 | 5000 | N/A | <LOQ | PASS |
| Hexane | 2 / 5 | 290 | N/A | ND | PASS |
| Isopropyl Alcohol | 10 / 40 | 5000 | N/A | ND | PASS |
| Methanol | 50 / 200 | 3000 | N/A | ND | PASS |
| Pentane | 20 / 50 | 5000 | N/A | ND | PASS |
| Propane | 10 / 20 | 5000 | N/A | ND | PASS |
| Toluene | 7 / 21 | 890 | N/A | ND | PASS |
| Total Xylenes | 50 / 160 | 2170 | N/A | ND | PASS |


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## 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 -** 11/15/2020 PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---|---|---|---|---|---|
| Cadmium | *0.02 / 0.05* | *0.5* | *N/A* | ND | PASS |
| Lead | *0.04 / 0.1* | *0.5* | *N/A* | ND | PASS |
| Arsenic | *0.02 / 0.1* | *1.5* | *N/A* | ND | PASS |
| Mercury | *0.002 / 0.01* | *3* | *N/A* | ND | PASS |

## Microbial Impurities Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbial impurities.

**Method:** QSP 1221 - Analysis of Microbial Impurities

**MICROBIAL IMPURITIES TEST RESULTS (PCR) -** 11/16/2020 PASS

| COMPOUND | ACTION LIMIT | RESULT | RESULT |
|---|---|---|---|
| Shiga toxin-producing *Escherichia coli* | *Detect* | ND | PASS |
| *Salmonella* spp. | *Detect* | ND | PASS |
| *Aspergillus fumigatus* | | NT | |
| *Aspergillus flavus* | | NT | |
| *Aspergillus niger* | | NT | |
| *Aspergillus terreus* | | NT | |

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbial impurities.

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

**MICROBIAL IMPURITIES TEST RESULTS (PLATING) -** 11/16/2020 **ND**

| COMPOUND | RESULT (cfu/g) |
|---|---|
| Aerobic Plate Count | ND |
| Total Yeast and Mold | ND |


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