

DATE ISSUED 10/04/2020

### SAMPLE NAME: cbdMD Relieve 4 oz 1500 mg Spray FRM#IS0031-CB15 Infused, Non-Inhalable

### CULTIVATOR / MANUFACTURER

Business Name: License Number: Address:

### DISTRIBUTOR Business Name: cbdMD

License Number: Address:

#### SAMPLE DETAIL

Batch Number: 2009-17 Sample ID: 200930S012

Date Collected: 09/30/2020 Date Received: 09/30/2020 Batch Size: Sample Size: 1.0 Unit(s) Unit Mass: 120 Grams per Unit Serving Size:

Pesticides: **PASS** 

Mycotoxins: **PASS** 

Residual Solvents: NT



Scan QR code to verify authenticity of results.

**RELIEVE** 

### CANNABINOID ANALYSIS - SUMMARY

| Total THC: Not Detected              | Total THC/CBD is cal<br>account the loss of a                             |
|--------------------------------------|---|
| Total CBD: 1633.080 mg/unit          | Total THC = $\Delta$ 9THC +<br>Total CBD = CBD + (<br>Sum of Cannabinoids |
| Sum of Cannabinoids: 1649.640 mg/uni |   |
| Total Cannabinoids: 1649.640 mg/unit | (CBG+0.877*CBGa) -<br>(CBDV+0.877*CBDV                                    |

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 =  $\Delta$ 9THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877)) Sum of Cannabinoids =  $\Delta$ 9THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa +  $\Delta$ 8THC + CBL + CBN Total Cannabinoids = ( $\Delta$ 9THC+0.877\*THCa) + (CBD+0.877\*CBDa) + (CBG+0.877\*CBCa) + (CBC+0.877\*CBCa) + (CBDV-0.877\*CBCa) + (CBDV-

Moisture: NT

Density: 0.9611 g/mL

Viscosity: NT

Heavy Metals: **PASS** 

Microbial Impurities (PCR): PASS

Microbial Impurities (Plating): DETECTED

#### SAFETY ANALYSIS - SUMMARY

| $\Delta$ 9THC per | r Unit: 🔗 PASS |
|-------------------|----------------|
|-------------------|----------------|

Foreign Material: NT

Water Activity: NT

Vitamin E Acetate: NT

**TERPENOID ANALYSIS - SUMMARY** 

35 TESTED, TOP 3 HIGHLIGHTED

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)

ame tackhouse LQC verified by: Carmen Stackhouse Date: 10/04/2020 Approved by: Josh Wurzer, President Date: 10/04/2020

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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 (∆9THC+0.877\*THCa)

### TOTAL CBD: 1633.080 mg/unit

Total CBD (CBD+0.877\*CBDa)

TOTAL CANNABINOIDS: 1649.640 mg/uni

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

### TOTAL CBG: 5.040 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: 5.880 mg/unit

Total CBDV (CBDV+0.877\*CBDVa)

### CANNABINOID TEST RESULTS - 10/04/2020

| COMPOUND           | LOD/LOQ<br>(mg/g) | MEASUREMENT<br>UNCERTAINTY (mg/g) | RESULT<br>(mg/g) | RESULT<br>(%) |
|--------------------|-------------------|-----------------------------------|------------------|---------------|
| CBD                | 0.004 / 0.011     | ±0.6519                           | 13.609           | 1.3609        |
| CBDV               | 0.002/0.007       | ±0.0026                           | 0.049            | 0.0049        |
| CBN                | 0.001/0.004       | ±0.0017                           | 0.047            | 0.0047        |
| CBG                | 0.002 / 0.005     | ±0.0026                           | 0.042            | 0.0042        |
| Δ9ΤΗC              | 0.002 / 0.005     | N/A                               | ND               | ND            |
| Δ8THC              | 0.01/0.02         | N/A                               | ND               | ND            |
| THCa               | 0.001 / 0.002     | N/A                               | ND               | ND            |
| THCV               | 0.002 / 0.008     | N/A                               | ND               | ND            |
| t <sub>THCVa</sub> | 0.002 / 0.005     | N/A                               | ND               | ND            |
| CBDa               | 0.001/0.003       | N/A                               | ND               | ND            |
| CBDVa              | 0.001/0.003       | N/A                               | ND               | ND            |
| CBGa               | 0.002/0.006       | N/A                               | ND               | ND            |
| CBL                | 0.003 / 0.008     | N/A                               | ND               | ND            |
| СВС                | 0.003/0.010       | N/A                               | ND               | ND            |
| CBCa               | 0.001/0.004       | N/A                               | ND               | ND            |
| SUM OF CANN        | ABINOIDS          |                                   | 13.747 mg/g      | 1.3747%       |

#### Unit Mass: 120 Grams per Unit

| Δ9THC per Unit               | 1100 per-package limit | ND               | PASS |
|------------------------------|------------------------|------------------|------|
| Total THC per Unit           |                        | ND               |      |
| CBD per Unit                 |                        | 1633.080 mg/unit |      |
| Total CBD per Unit           |                        | 1633.080 mg/unit |      |
| Sum of Cannabinoids per Unit |                        | 1649.640 mg/unit |      |
| Total Cannabinoids per Unit  |                        | 1649.640 mg/unit |      |

### MOISTURE TEST RESULT

### DENSITY TEST RESULT

VISCOSITY TEST RESULT

Not Tested

Not Tested

### 0.9611 g/mL Tested 10/04/2020

Method: QSP - (7870) Sample Preparation



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## 🔗 Terpenoid Analysis

Terpene analysis utilizing gas chromatographyflame 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

### TERPENOID TEST RESULTS - 10/03/2020

| COMPOUND              | LOD/LOQ<br>(mg/g) | MEASUREMENT<br>UNCERTAINTY (mg/g) | RESULT<br>(mg/g) | RESULT<br>(%) |
|-----------------------|-------------------|-----------------------------------|------------------|---------------|
| $\alpha$ 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            |
| $\alpha$ Phellandrene | 0.05 / 0.1        | N/A                               | ND               | ND            |
| 3 Carene              | 0.04 / 0.1        | N/A                               | ND               | ND            |
| $\alpha$ Terpinene    | 0.04/0.1          | N/A                               | ND               | ND            |
| Limonene              | 0.02/0.05         | N/A                               | ND               | ND            |
| Eucalyptol            | 0.03/0.08         | N/A                               | ND               | ND            |
| Ocimene               | 0.03/0.09         | N/A                               | ND               | ND            |
| γTerpinene            | 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            |
| $\alpha$ Cedrene      | 0.02/0.07         | N/A                               | ND               | ND            |
| $\beta$ Caryophyllene | 0.02/0.07         | N/A                               | ND               | ND            |
| $\alpha$ 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            |
| $\alpha$ Bisabolol    | 0.02/0.07         | N/A                               | ND               | ND            |
| TOTAL TERPENOIDS      |                   |                                   | ND               | ND            |



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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 - 10/02/2020 OPASS

| COMPOUND          | LOD/LOQ<br>(µg/g) | ACTION LIMIT<br>(µg/g) | MEASUREMENT<br>UNCERTAINTY (µg/g) | RESULT<br>(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 - 10/02/2020 @ 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 |

Continued on next page



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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 - 10/02/2020 continued

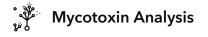
| COMPOUND                 | LOD/LOQ<br>(µg/g) | ACTION LIMIT<br>(µg/g) | MEASUREMENT<br>UNCERTAINTY (µg/g) | RESULT<br>(µg/g) | RESULT |
|--------------------------|-------------------|------------------------|-----------------------------------|------------------|--------|
| Clofentezine             | 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 utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

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

### MYCOTOXIN TEST RESULTS - 10/02/2020 O PASS

| COMPOUND        | LOD/LOQ<br>(µg/kg) | ACTION LIMIT<br>(µg/kg) | MEASUREMENT<br>UNCERTAINTY (µg/kg) | RESULT<br>(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   |

#### HEAVY METALS TEST RESULTS - 10/02/2020 O PASS

| COMPOU  | ND | LOD/LOQ<br>(µg/g) | ACTION LIMIT<br>(µg/g) | MEASUREMENT<br>UNCERTAINTY (µg/g) | RESULT<br>(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 TEST RESULTS (PCR) - 10/03/2020 OPASS

| 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     |        |

#### MICROBIAL IMPURITIES TEST RESULTS (PLATING) - 10/03/2020 DETECTED

| COMPOUND             | RESULT<br>(cfu/g) |
|----------------------|-------------------|
| Aerobic Plate Count  | ND                |
| Total Yeast and Mold | 200               |



NOTES Photograph of sample provided by client.

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plate counts of microbial impurities.

Analysis conducted by  $3M^{TM}$  Petrifilm<sup>TM</sup> and



### **Heavy Metals Analysis**

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: QSP - (1160) Analysis of Heavy Metals by ICP-MS



### **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

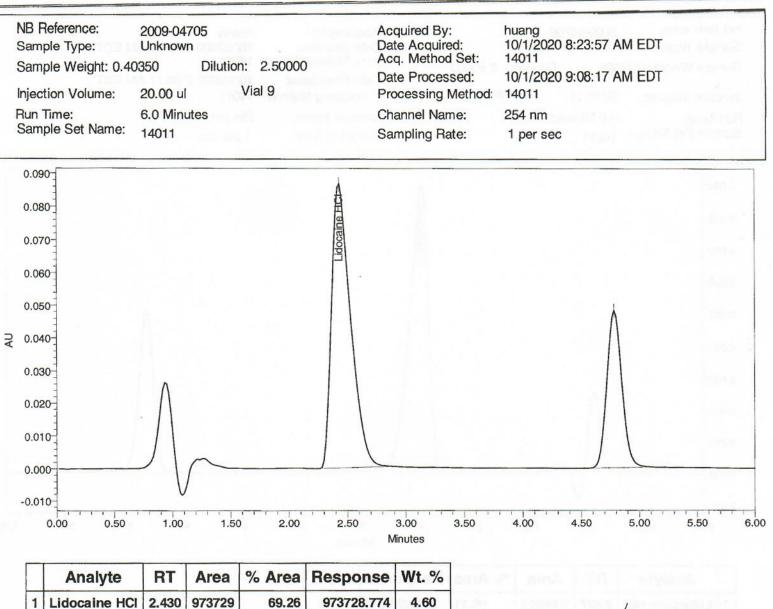
Method: QSP - (6794) Plating with 3M<sup>™</sup> Petrifilm<sup>™</sup>

# **Custom Analytics LLC**

# **Certificate of Analysis**

10/1/2020

# cbdMD Relieve4oz1500mg 4% L.Spray CB-0031C15IS0031-CB15 Comp 2009-17



| /            |   |
|--------------|---|
| ./           |   |
| -Am          |   |
| <br>- INVEL- | - |