



# Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20230720-005  
Sample: CA230720-008-024  
cbdMD-TPM-BR-1500 - ITM001714  
Strain: cbdMD-TPM-BR-1500 - ITM001714  
Category: Ingestible  
Type: Tincture

CBDMD  
Lic. #  
10130 Perimeter Pkwy  
Charlotte, NC 28216  
Lic. #

Batch#: 31881T1.1  
Batch Size Collected:  
Total Batch Size:  
Collected: 07/20/2023; Received: 07/20/2023  
Completed: 08/01/2023

|  |              |                         |  |                              |
|--|--------------|-------------------------|--|------------------------------|
| Moisture<br>NT<br>Water Activity<br>NT | Δ9-THC<br>ND | CBD<br>1,304.62 mg/unit | Total Cannabinoids<br>1,707.53 mg/unit | Total Terpenes<br>0.653 mg/g |
|--|--------------|-------------------------|--|------------------------------|

| Summary           | SOP Used                                   | Date Tested |          |
|-------------------|--|-------------|----------|
| Batch             |  |             | Pass     |
| Cannabinoids      | POT-PREP-004                               | 07/20/2023  | Complete |
| Terpenes          | TERP-PREP-001                              | 07/20/2023  | Complete |
| Residual Solvents | RS-PREP-001                                | 07/20/2023  | Pass     |
| Microbials        | MICRO-PREP-001                             | 07/25/2023  | Pass     |
| Mycotoxins        | PESTMICO-LC-PREP-001                       | 07/20/2023  | Pass     |
| Heavy Metals      | HM-PREP-001                                | 07/20/2023  | Pass     |
| Pesticides        | PESTMICO-LC-PREP-001 /<br>PEST-GC-PREP-001 | 07/20/2023  | Pass     |



Scan to see results

## Cannabinoid Profile

1 Unit = bottle, 28.36 g. 1 mL = 0.91 g.

| Analyte | LOQ (mg/g) | LOD (mg/g) | %     | mg/g  | mg/mL | mg/unit | Analyte   | LOQ (mg/g) | LOD (mg/g) | %     | mg/g  | mg/mL | mg/unit |
|---------|------------|------------|-------|-------|-------|---------|-----------|------------|------------|-------|-------|-------|---------|
| THCa    | 0.0368     | 0.0123     | ND    | ND    | ND    | ND      | CBGa      | 0.0534     | 0.0178     | ND    | ND    | ND    | ND      |
| Δ9-THC  | 0.0368     | 0.0053     | ND    | ND    | ND    | ND      | CBG       | 0.0368     | 0.0061     | 0.267 | 2.67  | 2.43  | 75.83   |
| Δ8-THC  | 0.0368     | 0.0055     | ND    | ND    | ND    | ND      | CBN       | 0.0368     | 0.0074     | 1.147 | 11.47 | 10.44 | 325.35  |
| THCV    | 0.0368     | 0.0048     | ND    | ND    | ND    | ND      | Total THC |            |            | ND    | ND    | ND    | ND      |
| CBDa    | 0.0368     | 0.0059     | ND    | ND    | ND    | ND      | Total CBD |            |            | 4.60  | 46.00 | 41.86 | 1304.62 |
| CBD     | 0.0368     | 0.0050     | 4.600 | 46.00 | 41.86 | 1304.62 | Total     |            |            | 6.02  | 60.21 | 54.79 | 1707.53 |
| CBDV    | 0.0368     | 0.0049     | 0.006 | 0.06  | 0.06  | 1.73    |           |            |            |       |       |       |         |
| CBC     | 0.0444     | 0.0148     | ND    | ND    | ND    | ND      |           |            |            |       |       |       |         |

Total THC=THCa \* 0.877 + d9-THC + d8-THC; Total CBD = CBDa \* 0.877 + CBD. LOD= Limit of Detection, LOQ= Limit of Quantitation, ND= Not Detected, NR= Not Reported. Potency is reported on a dry weight basis. Instrumentation and analysis SOPs used: Cannabinoids:UHPLC-DAD(POT-INST-005),Moisture:Moisture Analyzer(MOISTURE-001),Water Activity:Water Activity Meter(WA-INST-002), Foreign Material:Microscope(FOREIGN-001). Density measured at 19-24 °C, Water Activity measured at 0-90% RH. All QA submitted by the client, All CA State Compliance sampled using SAMPL-SOP-001.

## Terpene Profile

| Analyte             | LOQ (mg/g) | LOD (mg/g) | %      | mg/g  | Analyte         | LOQ (mg/g) | LOD (mg/g) | %      | mg/g  |
|---------------------|------------|------------|--------|-------|-----------------|------------|------------|--------|-------|
| δ-Limonene          | 0.449      | 0.150      | 0.0653 | 0.653 | Citronellol     | 0.598      | 0.120      | ND     | ND    |
| α-Bisabolol         | 0.193      | 0.064      | ND     | ND    | δ-3-Carene      | 0.306      | 0.024      | ND     | ND    |
| α-Cedrene           | 0.151      | 0.032      | ND     | ND    | Eucalyptol      | 0.244      | 0.081      | ND     | ND    |
| α-Humulene          | 0.151      | 0.026      | ND     | ND    | Fenchol         | 0.152      | 0.024      | ND     | ND    |
| α-Pinene            | 0.151      | 0.022      | ND     | ND    | Fenchone        | 0.151      | 0.025      | ND     | ND    |
| α-Terpinene         | 0.163      | 0.054      | ND     | ND    | y-Terpinene     | 0.152      | 0.033      | ND     | ND    |
| α-Terpineol         | 0.154      | 0.033      | ND     | ND    | Geraniol        | 0.609      | 0.114      | ND     | ND    |
| β-Caryophyllene     | 0.608      | 0.179      | ND     | ND    | Geranyl Acetate | 0.151      | 0.030      | ND     | ND    |
| β-Eudesmol          | 0.227      | 0.076      | ND     | ND    | Isoborneol      | 0.151      | 0.033      | ND     | ND    |
| β-Myrcene           | 0.153      | 0.015      | ND     | ND    | Linalool        | 0.154      | 0.036      | ND     | ND    |
| β-Pinene            | 0.306      | 0.027      | ND     | ND    | Menthol         | 0.215      | 0.072      | ND     | ND    |
| Borneol             | 0.154      | 0.024      | ND     | ND    | (-)-Guaiaol     | 0.154      | 0.029      | ND     | ND    |
| Camphene            | 0.151      | 0.017      | ND     | ND    | Pulegone        | 0.169      | 0.056      | ND     | ND    |
| Camphor             | 0.306      | 0.055      | ND     | ND    | p-Cymene        | 0.175      | 0.058      | ND     | ND    |
| Caryophyllene Oxide | 0.602      | 0.113      | ND     | ND    | Terpinolene     | 0.154      | 0.013      | ND     | ND    |
| Cedrol              | 0.207      | 0.069      | ND     | ND    | trans-Nerolidol | 0.222      | 0.074      | ND     | ND    |
| cis-Nerolidol       | 0.251      | 0.084      | ND     | ND    | Total           |            |            | 0.0653 | 0.653 |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP TERP-INST-003.



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*Josh M Swider*

Josh Swider  
Lab Director, Managing Partner  
08/01/2023

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This product has been tested by Infinite Chemical Analysis, LLC using valid testing methodologies and a quality system as required by state law. All LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 15730, pursuant to 16 CCR section 15726(e)(13). Values reported relate only to the product tested. Infinite Chemical Analysis, LLC 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 Infinite Chemical Analysis, LLC.



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ICAL ID: 20230720-005  
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Strain: cbdMD-TPM-BR-1500 - ITM001714  
Category: Ingestible  
Type: Tincture

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Batch#: 31881T1.1  
Batch Size Collected:  
Total Batch Size:  
Collected: 07/20/2023; Received: 07/20/2023  
Completed: 08/01/2023

## Residual Solvent Analysis

| Category 1          | LOQ  | LOD   | Limit  | Status | Category 2 | LOQ           | LOD    | Limit  | Status | Category 2 | LOQ  | LOD         | Limit | Status |       |      |      |
|---------------------|------|-------|--------|--------|------------|---------------|--------|--------|--------|------------|------|-------------|-------|--------|-------|------|------|
|                     | µg/g | µg/g  | µg/g   | µg/g   |            | µg/g          | µg/g   | µg/g   | µg/g   |            | µg/g | µg/g        | µg/g  | µg/g   |       |      |      |
| 1,2-Dichloro-Ethane | ND   | 0.31  | 0.1032 | 1      | Pass       | Acetone       | ND     | 51.246 | 2.572  | 5000       | Pass | n-Hexane    | ND    | 0.931  | 0.31  | 290  | Pass |
| Benzene             | ND   | 0.088 | 0.023  | 1      | Pass       | Acetonitrile  | ND     | 0.798  | 0.266  | 410        | Pass | Isopropanol | ND    | 5.037  | 1.679 | 5000 | Pass |
| Chloroform          | ND   | 0.174 | 0.058  | 1      | Pass       | Butane        | ND     | 4.849  | 1.114  | 5000       | Pass | Methanol    | ND    | 4.665  | 1.555 | 3000 | Pass |
| Ethylene Oxide      | ND   | 0.757 | 0.252  | 1      | Pass       | Ethanol       | 3732.5 | 40.542 | 13.513 | 5000       | Pass | Pentane     | ND    | 17.255 | 5.752 | 5000 | Pass |
| Methylene-Chloride  | ND   | 0.729 | 0.148  | 1      | Pass       | Ethyl-Acetate | ND     | 2.288  | 0.436  | 5000       | Pass | Propane     | ND    | 26.11  | 8.703 | 5000 | Pass |
| Trichloroethene     | ND   | 0.19  | 0.063  | 1      | Pass       | Ethyl-Ether   | ND     | 2.869  | 0.593  | 5000       | Pass | Toluene     | ND    | 0.864  | 0.136 | 890  | Pass |
|                     |      |       |        |        |            | Heptane       | ND     | 6.548  | 2.183  | 5000       | Pass | Xylenes     | ND    | 0.857  | 0.241 | 2170 | Pass |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP RS-INST-003.

## Heavy Metal Screening

|         | LOQ   | LOD   | Limit | Status |      |
|---------|-------|-------|-------|--------|------|
|         | µg/g  | µg/g  | µg/g  | µg/g   |      |
| Arsenic | ND    | 0.009 | 0.003 | 1.5    | Pass |
| Cadmium | 0.002 | 0.002 | 0.001 | 0.5    | Pass |
| Lead    | <LOQ  | 0.004 | 0.001 | 0.5    | Pass |
| Mercury | ND    | 0.014 | 0.005 | 3      | Pass |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: ICP-MS; samples analyzed according to SOP HM-INST-003.

## Microbiological Screening

|                       | Limit | Result       | Status |
|-----------------------|-------|--------------|--------|
|                       | CFU/g | CFU/g        |        |
| Aspergillus flavus    |       | NR           | NT     |
| Aspergillus fumigatus |       | NR           | NT     |
| Aspergillus niger     |       | NR           | NT     |
| Aspergillus terreus   |       | NR           | NT     |
| STEC                  |       | Not Detected | Pass   |
| Salmonella SPP        |       | Not Detected | Pass   |

ND=Not Detected. Analytical instrumentation used:qPCR; samples analyzed according to SOP MICRO-INST-001.



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 Strain: cbdMD-TPM-BR-1500 - ITM001714  
 Category: Ingestible  
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CBDMD  
 Lic. #  
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 Charlotte, NC 28216  
 Lic. #

Batch#: 31881T1.1  
 Batch Size Collected:  
 Total Batch Size:  
 Collected: 07/20/2023; Received: 07/20/2023  
 Completed: 08/01/2023

## Chemical Residue Screening

| Category 1       | LOQ  | LOD   | Status | Mycotoxins | LOQ              | LOD   | Limit | Status |        |      |
|------------------|------|-------|--------|------------|------------------|-------|-------|--------|--------|------|
|                  | µg/g | µg/g  | µg/g   |            | µg/kg            | µg/kg | µg/kg | µg/kg  |        |      |
| Aldicarb         | ND   | 0.030 | 0.009  | Pass       | B1               | ND    | 6.2   | 2.05   | Tested |      |
| Carbofuran       | ND   | 0.030 | 0.002  | Pass       | B2               | ND    | 5     | 1.63   | Tested |      |
| Chlordane        | ND   | 0.075 | 0.025  | Pass       | G1               | ND    | 5.38  | 1.77   | Tested |      |
| Chlorfenapyr     | ND   | 0.075 | 0.025  | Pass       | G2               | ND    | 5     | 1.02   | Tested |      |
| Chlorpyrifos     | ND   | 0.030 | 0.008  | Pass       | Ochratoxin A     | ND    | 16.41 | 5.42   | 20     | Pass |
| Coumaphos        | ND   | 0.030 | 0.005  | Pass       | Total Aflatoxins | ND    |       | 20     | Pass   |      |
| Daminozide       | ND   | 0.033 | 0.011  | Pass       |                  |       |       |        |        |      |
| Dichlorvos       | ND   | 0.030 | 0.007  | Pass       |                  |       |       |        |        |      |
| Dimethoate       | ND   | 0.030 | 0.007  | Pass       |                  |       |       |        |        |      |
| Ethoprophos      | ND   | 0.030 | 0.004  | Pass       |                  |       |       |        |        |      |
| Etofenprox       | ND   | 0.030 | 0.006  | Pass       |                  |       |       |        |        |      |
| Fenoxycarb       | ND   | 0.030 | 0.006  | Pass       |                  |       |       |        |        |      |
| Fipronil         | ND   | 0.030 | 0.008  | Pass       |                  |       |       |        |        |      |
| Imazalil         | ND   | 0.030 | 0.009  | Pass       |                  |       |       |        |        |      |
| Methiocarb       | ND   | 0.030 | 0.005  | Pass       |                  |       |       |        |        |      |
| Mevinphos        | ND   | 0.032 | 0.011  | Pass       |                  |       |       |        |        |      |
| Paclbutrazol     | ND   | 0.030 | 0.006  | Pass       |                  |       |       |        |        |      |
| Parathion Methyl | ND   | 0.024 | 0.008  | Pass       |                  |       |       |        |        |      |
| Propoxur         | ND   | 0.030 | 0.005  | Pass       |                  |       |       |        |        |      |
| Spiroxamine      | ND   | 0.030 | 0.003  | Pass       |                  |       |       |        |        |      |
| Thiacloprid      | ND   | 0.030 | 0.002  | Pass       |                  |       |       |        |        |      |

| Category 2          | LOQ  | LOD   | Limit | Status | Category 2 | LOQ                     | LOD  | Limit | Status |     |      |
|---------------------|------|-------|-------|--------|------------|-------------------------|------|-------|--------|-----|------|
|                     | µg/g | µg/g  | µg/g  | µg/g   |            | µg/g                    | µg/g | µg/g  | µg/g   |     |      |
| Abamectin           | ND   | 0.039 | 0.013 | 0.3    | Pass       | Kresoxim Methyl         | ND   | 0.030 | 0.007  | 1   | Pass |
| Acephate            | ND   | 0.063 | 0.021 | 5      | Pass       | Malathion               | ND   | 0.030 | 0.005  | 5   | Pass |
| Acequinocyl         | ND   | 0.035 | 0.011 | 4      | Pass       | Metalaxyl               | ND   | 0.030 | 0.003  | 15  | Pass |
| Acetamiprid         | ND   | 0.030 | 0.006 | 5      | Pass       | Methomyl                | ND   | 0.030 | 0.006  | 0.1 | Pass |
| Azoxystrobin        | ND   | 0.030 | 0.003 | 40     | Pass       | Myclobutanil            | ND   | 0.030 | 0.007  | 9   | Pass |
| Bifenazate          | ND   | 0.030 | 0.005 | 5      | Pass       | Naled                   | ND   | 0.030 | 0.005  | 0.5 | Pass |
| Bifenthrin          | ND   | 0.030 | 0.006 | 0.5    | Pass       | Oxamyl                  | ND   | 0.030 | 0.009  | 0.3 | Pass |
| Boscalid            | ND   | 0.030 | 0.007 | 10     | Pass       | Pentachloronitrobenzene | ND   | 0.054 | 0.018  | 0.2 | Pass |
| Captan              | ND   | 0.358 | 0.120 | 5      | Pass       | Permethrin              | ND   | 0.030 | 0.002  | 20  | Pass |
| Carbaryl            | ND   | 0.030 | 0.004 | 0.5    | Pass       | Phosmet                 | ND   | 0.030 | 0.005  | 0.2 | Pass |
| Chlorantraniliprole | ND   | 0.030 | 0.006 | 40     | Pass       | Piperonyl Butoxide      | ND   | 0.030 | 0.006  | 8   | Pass |
| Clofentezine        | ND   | 0.030 | 0.005 | 0.5    | Pass       | Prallethrin             | ND   | 0.055 | 0.018  | 0.4 | Pass |
| Cyfluthrin          | ND   | 0.056 | 0.019 | 1      | Pass       | Propiconazole           | ND   | 0.037 | 0.012  | 20  | Pass |
| Cypermethrin        | ND   | 0.044 | 0.015 | 1      | Pass       | Pyrethrins              | ND   | 0.030 | 0.002  | 1   | Pass |
| Diazinon            | ND   | 0.030 | 0.009 | 0.2    | Pass       | Pyridaben               | ND   | 0.030 | 0.005  | 3   | Pass |
| Dimethomorph        | ND   | 0.030 | 0.009 | 20     | Pass       | Spinetoram              | ND   | 0.030 | 0.003  | 3   | Pass |
| Etoxazole           | ND   | 0.030 | 0.003 | 1.5    | Pass       | Spinosad                | ND   | 0.030 | 0.003  | 3   | Pass |
| Fenhexamid          | ND   | 0.030 | 0.008 | 10     | Pass       | Spiromesifen            | ND   | 0.030 | 0.005  | 12  | Pass |
| Fenpyroximate       | ND   | 0.030 | 0.005 | 2      | Pass       | Spirotetramat           | ND   | 0.030 | 0.006  | 13  | Pass |
| Flonicamid          | ND   | 0.046 | 0.015 | 2      | Pass       | Tebuconazole            | ND   | 0.030 | 0.009  | 2   | Pass |
| Fludioxonil         | ND   | 0.048 | 0.016 | 30     | Pass       | Thiamethoxam            | ND   | 0.030 | 0.006  | 4.5 | Pass |
| Hexythiazox         | ND   | 0.031 | 0.010 | 2      | Pass       | Trifloxystrobin         | ND   | 0.030 | 0.002  | 30  | Pass |
| Imidacloprid        | ND   | 0.030 | 0.009 | 3      | Pass       |                         |      |       |        |     |      |

## Other Analyte(s):

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: LC-MS-MS & GC-MS-MS; samples analyzed according to SOPs PESTMYCO-LC-INST-004 and PEST-GC-INST-003.



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|             |                               |                        |  |
|-------------|-------------------------------|------------------------|--|
| Sample Name | cbdMD-TPM-BR-1500 - ITM001714 | ICAL ID                | 20230720-005                             |
| Batch       | 31881T1.1                     | Registering Laboratory | San Diego                                |
| Client      | cbdMD                         | Contact                | Customer Service Team                    |
| Address     |                               | Address                | 8312 Miramar Mall<br>San Diego, CA 92121 |
| Telephone   |                               | Telephone              | (858) 623-2740                           |
| Email       |                               | Email                  | questions@infinitecal.com                |
| Sampler     |                               | COA Issue Date         | July 25, 2023                            |

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### Definitions

| <: Less Than | >: Greater Than | RP: Result Pending | MPN: Most Probable Number | CFU: Colony Forming Units | ---: Not Requested | NA: Not Applicable | ND: Not Detected | MDL: Method Detection Limit | LCMRL: Lowest Concentration Minimum Reporting Level | NT: Not Tested | ~: Estimated | TBA: To Be Advised | TNTC: Too numerous to count

### Microbial Plate Panel

| Analyte                   | CFU/g | MDL | Client Limit <sup>1</sup> | Status <sup>2</sup> |
|---------------------------|-------|-----|---------------------------|---------------------|
| Aerobic (APC)             | <MDL  | 10  | ---                       | ---                 |
| Coliforms                 | NT    | 10  | ---                       | ---                 |
| <i>E. coli</i>            | NT    | 10  | ---                       | ---                 |
| Yeast & Mold              | <MDL  | 10  | ---                       | ---                 |
| <i>Enterobacteriaceae</i> | NT    | 10  | ---                       | ---                 |
| <i>Salmonella spp.</i>    | NT    | 10  | ---                       | ---                 |
| <i>Listeria spp.</i>      | <MDL  | 10  | ---                       | ---                 |

### Analysis Location

All analyses were completed by Infinite Chemical Analysis – San Diego.

### Analysis Comments

Method ID: MICRO-PLATE-001

<sup>1</sup>Client limit is self-selected and will be replaced by official CA state limits when they become available.

<sup>2</sup>Status of Pass/Fail based on client limit selected.

*Josh M Swider*

Josh Swider  
Lab Director, CEO  
July 25, 2023

## Certificate of Analysis

### Open Book Extracts

317 Lucy Garrett Road  
Roxboro North Carolina 27574 United States

|                            |                                      |                          |                                  |
|----------------------------|--------------------------------------|--------------------------|----------------------------------|
| <b>Sample Name:</b>        | <b>cbdMD-TPM-BR-1500 - ITM001711</b> | <b>Eurofins Sample:</b>  | <b>13115092</b>                  |
| <b>Project ID</b>          | OPEN_BO_E-20230711-0027              | <b>Receipt Date</b>      | 12-Jul-2023                      |
| <b>PO Number</b>           | CVD                                  | <b>Receipt Condition</b> | Ambient temperature              |
| <b>Lot Number</b>          | 31881T1.1                            | <b>Login Date</b>        | 11-Jul-2023                      |
| <b>Sample Serving Size</b> | 1 mL                                 | <b>Date Started</b>      | 12-Jul-2023                      |
|                            |                                      | <b>Sampled</b>           | Sample results apply as received |
|                            |                                      | <b>Online Order</b>      | 901-2023-E041109                 |

| Analysis                                  | Result       | Result per Serving   |
|---|--------------|----------------------|
| <b>Density by Gravimetric Analysis</b>    |              |                      |
| Density                                   | 0.950 g/mL   |                      |
| <b>Determination of Melatonin by UPLC</b> |              |                      |
| Melatonin                                 | 579 mg/100mL | 5.79 mg/Serving Size |
| Melatonin                                 | 6090 mcg/g   | 5.79 mg/Serving Size |

| Method References | Testing Location |
|-------------------|------------------|
|-------------------|------------------|

**Density by Gravimetric Analysis (SPGP\_S)**

NIST Handbook 133 - Checking the Net Contents of Packaged Goods, 2015 Edition (Modified)

**Food Integrity Innovation-Brea**

2951 Saturn Street, Unit C Brea, CA 92821 USA

**Determination of Melatonin by UPLC (OC\_MLTON\_S)**

Internally Developed Method

**Food Integrity Innovation-Brea**

2951 Saturn Street, Unit C Brea, CA 92821 USA

| Testing Location(s) | Released on Behalf of Eurofins by |
|---------------------|-----------------------------------|
|---------------------|-----------------------------------|

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