

## Certificate of Analysis

January 23, 2018

**Sample ID:** FP-17-1053

**Product name** Plus cbd oil gold drops unflavored

**Batch/Lot#:** 7324323

**Strength:** 2oz 750mg

| <u>Physical properties</u> | <u>Result</u> | <u>Method</u> | <u>Analyst</u> |
|----------------------------|---------------|---------------|----------------|
| Appearance                 | <u>Pass</u>   | Organoleptic  | VK             |
| Color                      | <u>Pass</u>   | Organoleptic  | VK             |
| Aroma                      | <u>Pass</u>   | Organoleptic  | VK             |

| <u>Cannabinoid:</u> | <u>mg:</u>    | <u>Method:</u> | <u>Analyst:</u> |
|---------------------|---------------|----------------|-----------------|
| <b>CBD</b>          | <b>779.89</b> | HPLC           | VK              |
| CBDV                | 8.61          | HPLC           | VK              |
| CBDA                | 0.00          | HPLC           | VK              |
| CBG                 | 14.67         | HPLC           | VK              |
| CBGA                | 17.74         | HPLC           | VK              |
| CBC                 | 36.81         | HPLC           | VK              |
| CBN                 | 5.79          | HPLC           | VK              |
| $\Delta^9$ -THC     | 14.59         | HPLC           | VK              |
| THCA                | 0.00          | HPLC           | VK              |

**Total cannabinoids:** **878.1 mg**

**Sample size:** **54 g**

**THC by mass:** **0.0270 %**

JAN 23 2018

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Analyst

Date

Reviewed By

Date

Vandana Kothari, M.S., B.Pharm.  
Analytical Chemist

Dalia Chandler, M.S., B.S.  
QA/QC Manager

Sample Name: (FP-17-1053) Plus CBD Oil 2oz 750mg Gold Dr  
ops Unflavored LOT:7324323  
Tested for: CV Sciences  
Sample ID: 171220P094  
Date Submitted: 12/20/2017  
Sample Type: infused

## Microbiological Test Results

3M Petrifilm and plate counts for microbiological contamination  
Total Yeast and Mold <1,000 cfu/g E. coli ND  
Pseudomonas ND Coliforms <100 cfu/g  
Total Aerobic Plate Count <1,000 cfu/g Salmonella ND

**Total Sample Weight:** 54.0000 Grams

## Cannabinoid Test Results

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)

### Cannabinoid Summary

**Total THC** Δ9THC+THCa 12.42 mg  
**Total CBD** CBD+CBDA 680.40 mg

### Full Cannabinoid Profile

|                                   |                   |
|-----------------------------------|-------------------|
| THC                               | 0.23 mg/g         |
| THCa                              | ND                |
| CBD                               | 12.58 mg/g        |
| CBDA                              | 0.02 mg/g         |
| CBN                               | 0.03 mg/g         |
| CBDV                              | 0.22 mg/g         |
| CBDA                              | ND                |
| CBG                               | 0.14 mg/g         |
| CBGa                              | ND                |
| THCV                              | ND                |
| Δ8 - THC                          | ND                |
| CBC                               | 0.39 mg/g         |
| <b>Total Active Cannabinoids:</b> | <b>13.61 mg/g</b> |

## Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry

|               | Reporting Limit   |
|---------------|-------------------|
| Acequinocyl   | Not Detected 1    |
| Abamectin     | Not Detected 0.25 |
| Bifenthrin    | Not Detected 0.1  |
| Daminozide    | Not Detected 0.5  |
| Fenoxycarb    | Not Detected 0.1  |
| Imidacloprid  | Not Detected 0.2  |
| Myclobutanil  | Not Detected 0.1  |
| Paclobutrazol | Not Detected 0.2  |
| Pyrethrins    | Not Detected 0.5  |
| Spinosad      | Not Detected 0.1  |
| Spiromesifen  | Not Detected 0.1  |
| Spirotetramat | Not Detected 0.1  |

## Terpene Test Results

Terpene analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

|                 | mg/g / % |                     | mg/g / % |
|-----------------|----------|---------------------|----------|
| α Bisabolol     | N/A      | α Terpinene         | N/A      |
| α Pinene        | N/A      | Linalool            | N/A      |
| 3 Carene        | N/A      | Limonene            | N/A      |
| Borneol         | N/A      | Myrcene             | N/A      |
| β Caryophyllene | N/A      | Fenchol             | N/A      |
| Geraniol        | N/A      | α Phellandrene      | N/A      |
| α Humulene      | N/A      | Caryophyllene Oxide | N/A      |
| Terpinolene     | N/A      | Terpineol           | N/A      |
| Valencene       | N/A      | β Pinene            | N/A      |
| Menthol         | N/A      | R-(+)-Pulegone      | N/A      |
| Nerolidol       | N/A      | Geranyl Acetate     | N/A      |
| Camphene        | N/A      | Citronellol         | N/A      |
| Eucalyptol      | N/A      | p-Cymene            | N/A      |
| α Cedrene       | N/A      | Ocimene             | N/A      |
| Camphor         | N/A      | Guaïol              | N/A      |
| (-)-Isopulegol  | N/A      | Phytol              | N/A      |
| Sabinene        | N/A      | isoborneol          | N/A      |
| γ Terpinene     | N/A      |                     |          |

**Total Terpene Concentration:**

N/A

## Residual Solvent Test Results

Residual Solvent analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

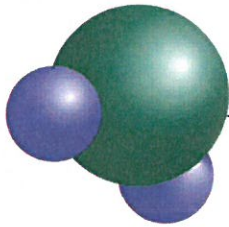
|                    |     |                       |     |
|--------------------|-----|-----------------------|-----|
| Propane            | N/A | Ethanol               | N/A |
| Methanol           | N/A | Isopropanol           | N/A |
| Isobutane          | N/A | Mercaptan             | N/A |
| 2,2-Dimethylbutane | N/A | 2-Methylpentane       | N/A |
| 3-Methylpentane    | N/A | Cyclohexane + Benzene | N/A |
| Isopentane         | N/A | Neopentane            | N/A |
| n Butane           | N/A | n Heptane             | N/A |
| n Hexane           | N/A | n Pentane             | N/A |

## Sample Certification



Scan to verify at sclabs.com

  
Josh Wurzer, President



**Analytical Report**  
December 22, 2017

Vandana Kothari  
CV Sciences  
3030 Bunker Hill Street  
Suite 107  
San Diego, CA 92121

Page 1 of 1  
WO Number: W17L0631

Client: CV Sciences  
Client #: C2662  
Sample Type: Liquid Product-Mass  
Collector: Client

Customer PO: C2662  
Date Received: 12/19/2017  
Date Completed: 12/22/2017  
Discard Date: 01/05/2018

**CSL#: 17L1510 Plus CBD Oil Gold Drops Unflavored (FP-17-1053) - Lot#: 7324323**

| Parameter | Result     | PQL   | Method | Date     | Analyst |
|-----------|------------|-------|--------|----------|---------|
| Arsenic   | <0.50 ppm  | 0.50  | ICP MS | 12/20/17 | AW      |
| Cadmium   | <0.25 ppm  | 0.25  | ICP MS | 12/20/17 | AW      |
| Lead      | <0.050 ppm | 0.050 | ICP MS | 12/21/17 | AW      |
| Mercury   | <0.10 ppm  | 0.10  | ICP MS | 12/20/17 | AW      |

Respectfully Submitted,  
Chemical Solutions, Ltd.

Joshua Reichert  
Reviewed and Approved  
Dec 22 2017 4:11 PM

QA Representative

cosign

Notes:

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The units for the PQL are the same as those shown for the result.