CV SCIENCES™
A LIFE SCIENCE COMPANY

Certificate of Analysis

September 14, 2017

Sample ID: FP-17-0786

Product name Plus cbd oil ps80 free unflavored spray

Batch/Lot#: 7254318

Strength: 1oz 100mg

Cannabinoid:	mg:	Method:	Analyst:
CBD	**106.10**	HPLC	VK
CBDV	3.03	HPLC	VK
CBDA	4.81	HPLC	VK
CBG	0.98	HPLC	VK
CBGA	0.00	HPLC	VK
CBC	0.00	HPLC	VK
CBN	0.00	HPLC	VK
Δ^9-THC	2.08	HPLC	VK
THCA	0.00	HPLC	VK

Total cannabinoids: **117.0 mg**

Sample size: **27 g**

THC by mass: **0.0077 %**

SEP 14 2017

Analyst Date

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

Analytical Chemist

SEP 14 2017

Reviewed By Date

Dalia Chandler, M.S., B.S.

QA/QC Manager

Certificate of Analysis

Sample Name:	(FP-17-0786) Plus CBD Oil 1oz 100mg PS80 free unflavored lot: 7254318
Tested for:	CV Sciences
Sample ID:	170914P005
Date Submitted:	09/14/2017
Sample Type:	Infused

Total Sample Weight: 28.3400 Grams

Cannabinoid Test Results

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

Cannabinoid Summary

Total THC	Δ9THC+THCa	2.55 mg
Total CBD	CBD+CBDa	102.31 mg

Full Canabinoid Profile

THC	0.09 mg/g
THCa	ND
CBD	3.53 mg/g
CBDa	0.08 mg/g
CBN	0.02 mg/g
CBDV	0.07 mg/g
CBDVa	ND
CBG	0.05 mg/g
CBGa	ND
THCV	ND
Δ8 - THC	ND
CBC	0.19 mg/g
Total Active Cannabinoids:	4.03 mg/g

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
Bifenezate	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

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

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	Guaiol	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

These results relate only to the items tested. This test report shall not be reproduced except in full, without written approval of the laboratory.
The uncertainty of measurement associated with the measurement result reported in this certificate is available from SC Laboratories upon request.

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trace elemental analysis

Analytical Report

September 15, 2017

Vandana Kothari
CV Sciences
3030 Bunker Hill St.
Suite 107
San Diego, CA 92109

WO Number: W17I0384

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

Customer PO: C2662
Date Received: 9/14/2017
Date Completed: 09/15/2017
Discard Date: 09/29/2017

CSL#: 17I0900 **+CBD Oil 1oz 100mg Unflavored PS80 Free (FP-17-0786) - Lot#: 7254318**

Parameter	Result	PQL	Method	Date	Analyst
Arsenic	<0.50 ppm	0.50	ICP MS	09/14/17	AW
Cadmium	<0.25 ppm	0.25	ICP MS	09/14/17	AW
Lead	<0.050 ppm	0.050	ICP MS	09/14/17	ALC
Mercury	<0.10 ppm	0.10	ICP MS	09/14/17	AW

Respectfully Submitted,
Chemical Solutions, Ltd.

Joshua Reichert
Reviewed and Approved
Sep 15 2017 4:06 PM

QA Representative

cosign

Notes:
CONFIDENTIAL REPORT. This report is confidential and is for the sole use of the addressee.
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The units for the PQL are the same as those shown for the result.