

# CV Sciences Certificate of Analysis



This document is to certify that units of the lot number below were tested and found to comply with CV Sciences finished product specifications.

**PRODUCT NAME:** PlusCBD relief softgel 60ct

**SAMPLE ID:** FP-23-0129

Strength: 30mg CBD/CBDA 60ct

Expiration Date: 08/25

Lot Number: 3310395280

Total Quantity Produced: 3134

PHYSICAL PROPERTIES	STATUS (PASS/FAIL)	METHOD
Appearance	PASS	Gross Organoleptic
Color	PASS	Gross Organoleptic
Aroma	PASS	Gross Organoleptic

CANNABINOIDS*	MG/UNIT	METHOD
CBD	39.56	HPLC-UV
CBDA	1.0	HPLC-UV
d9-THC	0.15	HPLC-UV
THCA-A	<LOQ	HPLC-UV
d8-THC	<LOQ	HPLC-UV
THCV	<LOQ	HPLC-UV
CBDV	0.48	HPLC-UV
CBDVA	0.087	HPLC-UV
CBGA	<LOQ	HPLC-UV
CBG	<LOQ	HPLC-UV
CBN	<LOQ	HPLC-UV
CBC	0.13	HPLC-UV
CBL	<LOQ	HPLC-UV

Total Cannabinoids 41.407 mg/unit

Unit Weight 0.873g

THC by Mass 0.017%

<LOQ = Below Limit of Quantitation; LOQ = 0.0054%

OTHER ACTIVE INGREDIENTS**	MG/UNIT	METHOD
Palmitoylethanolamide (PEA)	188	HPLC

HEAVY METALS*	STATUS (PASS/FAIL)	METHOD
Arsenic	PASS	ICP-MS
Cadmium	PASS	ICP-MS
Mercury	PASS	ICP-MS
Lead	PASS	ICP-MS

# CV Sciences Certificate of Analysis



MICROBIOLOGY*	STATUS (PASS/FAIL)	METHOD
Mold/Mildew/Yeast	PASS	Petrifilm or Agar Plates
Aerobic Bacteria	PASS	Petrifilm
Coliforms	PASS	Petrifilm
E. Coli	PASS	Blood Agar and PCR
Salmonella	PASS	Salmonella Petrifilm and PCR
Pseudomonas	PASS	Centrimide Selective Agar

PESTICIDES***	STATUS (PASS/FAIL)	METHOD
Total Pesticides	PASS	HPLC-MS

RESIDUAL SOLVENTS***	STATUS (PASS/FAIL)	METHOD
Total Residual Solvents	PASS	HS-GC

1. The hemp extract is the product of a batch tested by the independent testing laboratory;
2. The batch contained a total delta-9-tetrahydrocannabinol concentration that did not exceed 0.3 percent pursuant to the testing of random sample of the batch; and
3. The batch does not contain contaminants unsafe for human consumption.†

†Tested analytes and limits were set by CV Sciences, Inc.

DB Labs Sample ID #: 2310DBL0069.1922

\*Actual analytical results obtained by DB Labs (Las Vegas, NV), CV Sciences' third-party testing laboratory.

Advanced Botanical Consulting & Testing Sample ID #: n/a

\*\*Actual analytical results obtained by Advanced Botanical Consulting & Testing, Inc. (Tustin, CA), CV Sciences' third-party testing laboratory.

Anresco Laboratories Sample ID #: 1178364

\*\*\*Actual analytical results obtained by Anresco Laboratories (San Francisco, CA), CV Sciences' third-party testing laboratory.

This Certificate of Analysis has been generated to document product test results.  
The "Prepared By" signature does not indicate finished product release for distribution.



## QUALITY APPROVAL

Prepared By / Date	Approved By / Date	Status
Vandana Kothari	<small>Electronically signed by: Vandana Kothari Reason: I am the authorized owner of the document Date: Oct 31, 2023 12:00 PDF</small> Vandana Kothari	Pass



# Certificate of Analysis

CV Sciences, Inc.

10070 Barnes Canyon Road  
San Diego, CA 92121  
Vandana Kothari

Sample

2310DBL0069.1922

Batch FP-23-0129

Lot 3310395280

Ordered 10/23/2023

Completed 10/26/2023

PlusCBD relief softgel 60ct SKU 608 exp 08/25

## Cannabinoids

	40.56	4.646	0.8731
Total CBD (mg/unit)	% Total CBD	Mass	Unit weight (g)
Cannabinoid	LOQ	Mass	Mass
	%	%	mg/g
CBD	0.0054	4.531	45.31
CBDa	0.0054	0.115	1.15
d9-THC	0.0054	0.017	0.17
THCA-A	0.0054	<LOQ	<LOQ
d8-THC	0.0054	<LOQ	<LOQ
THCV	0.0054	<LOQ	<LOQ
CBDV	0.0054	0.055	0.55
CBDVA	0.0054	0.010	0.10
CBGA	0.0054	<LOQ	<LOQ
CBG	0.0054	<LOQ	<LOQ
CBN	0.0054	<LOQ	<LOQ
CBC	0.0054	0.015	0.15
CBL	0.0054	<LOQ	<LOQ

Total CBD = CBDa + CBD

## Microbiology

Quantitative Analysis	Status	Sample	LOQ	Limit
	Pass/Fail	CFU/g	CFU/g	CFU/g
Mold/Mildew/Yeast	PASS	<LOQ	90	10,000
Enterobacteriaceae	PASS	<LOQ	90	1,000
Aerobic Bacteria	PASS	<LOQ	900	100,000
Coliforms	PASS	<LOQ	90	1,000
Qualitative Analysis	Detected or Not-detected			
E. Coli	PASS	Not-detected		
Salmonella	PASS	Not-detected		
Pseudomonas	PASS	Not-detected		

## Heavy Metals

Compound	Status	Sample	LOQ	Limit
	Pass/Fail	PPB	PPB	PPB
Arsenic	PASS	<LOQ	99	1500
Cadmium	PASS	<LOQ	99	500
Mercury	PASS	<LOQ	99	1000
Lead	PASS	<LOQ	99	500

- The hemp extract is the product of a batch tested by the independent testing laboratory;
- The batch contained a total delta-9-tetrahydrocannabinol concentration that did not exceed 0.3 percent pursuant to the testing of a random sample of the batch; and
- The batch does not contain contaminants unsafe for human consumption.\*



*[Signature]*

Glen Marquez  
Director

*[Signature]*

Sherri Defreese  
Quality Control



4439 Polaris Ave.  
Las Vegas, NV 89103  
(702)729-5180

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The reported result is based on a sample weight with the applicable moisture content for that sample. LOQ = Limit of Quantitation. NA = Not Analyzed. ND = Not Detected. PGR = Plant Growth Regulator. Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. This product has been tested by DB Labs, LLC (MMEH 61887736101164525768) using valid testing methodologies and a quality system as required by Nevada state law. Values reported relate only to the product tested. DB Labs makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. \*Tested analytes and limits were set by the customer. This Certificate shall not be reproduced except in full, without the written approval of DB Labs.

October 25, 2023

**CV SCIENCES, INC.**  
 9530 Padgett Street, Suite 107  
 San Diego, CA 92126

Order No. 549593  
 Sample No. 1178364

## SAMPLE INFORMATION

**Description** FP-23-0129 PlusCBD relief softgel 60ct SKU 608 exp 08/25  
**Lot Number** 3310395280  
**Category (Type)** Non-Inhalable Edible (Capsule)  
**Received** October 23, 2023

## ANALYTICAL RESULTS

**Analysis** Pesticide Screen ✔ Pass  
**Instrument** Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS) & Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS)  
**Method** MF-CHEM-13  
**Analysis Date** October 23, 2023 to October 25, 2023

Analyte	LOD/LOQ (ppm)	Findings (ppm)	Limit (ppm)	Status
Abamectin	0.04/0.10	ND	0.3	Pass
Acephate	0.02/0.06	ND	5.0	Pass
Acequinocyl	0.04/0.10	ND	4.0	Pass
Acetamiprid	0.02/0.06	ND	5.0	Pass
Aldicarb	0.02/0.06	ND	0.02	Pass
Azoxystrobin	0.02/0.06	ND	40.0	Pass
Bifenazate	0.02/0.06	ND	5.0	Pass
Bifenthrin	0.04/0.10	ND	0.5	Pass
Boscalid	0.02/0.06	ND	10.0	Pass
Captan	0.2/0.6	ND	5.0	Pass
Carbaryl	0.02/0.06	ND	0.5	Pass
Carbofuran	0.02/0.06	ND	0.02	Pass
Chlorantraniliprole	0.02/0.06	ND	40.0	Pass
Chlordane	0.02/0.06	ND	0.02	Pass
Chlorfenapyr	0.02/0.08	ND	0.02	Pass
Chlorpyrifos	0.02/0.06	ND	0.02	Pass
Clofentezine	0.02/0.06	ND	0.5	Pass
Coumaphos	0.02/0.06	ND	0.02	Pass
Cyfluthrin	0.10/0.30	ND	1.0	Pass
Cypermethrin	0.10/0.30	ND	1.0	Pass
Daminozide	0.02/0.06	ND	0.02	Pass
DDVP (Dichlorvos)	0.02/0.06	ND	0.02	Pass
Diazinon	0.02/0.06	ND	0.2	Pass
Dimethoate	0.02/0.06	ND	0.02	Pass
Dimethomorph	0.02/0.06	ND	20.0	Pass
Ethoprop(hos)	0.02/0.06	ND	0.02	Pass
Etofenprox	0.02/0.06	ND	0.02	Pass
Etoxazole	0.02/0.06	ND	1.5	Pass
Fenhexamid	0.02/0.06	ND	10.0	Pass
Fenoxycarb	0.02/0.06	ND	0.02	Pass
Fenpyroximate	0.02/0.06	ND	2.0	Pass

If there are any questions with this report, please contact "[compliance@anresco.com](mailto:compliance@anresco.com)".

Analyte	LOD/LOQ (ppm)	Findings (ppm)	Limit (ppm)	Status
Fipronil	0.02/0.06	ND	0.02	Pass
Flonicamid	0.02/0.06	ND	2.0	Pass
Fludioxonil	0.02/0.06	ND	30.0	Pass
Hexythiazox	0.02/0.06	ND	2.0	Pass
Imazalil	0.02/0.06	ND	0.02	Pass
Imidacloprid	0.02/0.06	ND	3.0	Pass
Kresoxim Methyl	0.02/0.06	ND	1.0	Pass
Malathion	0.02/0.06	ND	5.0	Pass
Metalaxyl	0.02/0.06	ND	15.0	Pass
Methiocarb	0.02/0.06	ND	0.02	Pass
Methomyl	0.02/0.06	ND	0.1	Pass
Methyl parathion	0.02/0.06	ND	0.02	Pass
Mevinphos	0.02/0.06	ND	0.02	Pass
Myclobutanil	0.02/0.06	ND	9.0	Pass
Naled	0.02/0.06	ND	0.5	Pass
Oxamyl	0.02/0.06	ND	0.2	Pass
Pacllobutrazol	0.02/0.06	ND	0.02	Pass
Pentachloronitrobenzene	0.04/0.10	ND	0.2	Pass
Permethrins	0.10/0.30	ND	20.0	Pass
Phosmet	0.02/0.06	ND	0.2	Pass
Piperonyl Butoxide	0.02/0.06	ND	8.0	Pass
Prallethrin	0.04/0.10	ND	0.4	Pass
Propiconazole	0.02/0.06	ND	20.0	Pass
Propoxur	0.02/0.06	ND	0.02	Pass
Pyrethrins	0.15/0.50	ND	1.0	Pass
Pyridaben	0.02/0.06	ND	3.0	Pass
Spinetoram	0.02/0.06	ND	3.0	Pass
Spinosad	0.02/0.06	ND	3.0	Pass
Spiromesifen	0.04/0.10	ND	12.0	Pass
Spirotetramat	0.02/0.06	ND	13.0	Pass
Spiroxamine	0.02/0.06	ND	0.02	Pass
Tebuconazole	0.02/0.06	ND	2.0	Pass
Thiacloprid	0.02/0.06	ND	0.02	Pass
Thiamethoxam	0.02/0.06	ND	4.5	Pass
Trifloxystrobin	0.02/0.06	ND	30.0	Pass

Reported by  
**Anresco, Inc.**

ND = None Detected



Alyssa Tabuca  
Analyst I

October 25, 2023

If there are any questions with this report, please contact "[compliance@anresco.com](mailto:compliance@anresco.com)".

October 25, 2023

**CV SCIENCES, INC.**  
9530 Padgett Street, Suite 107  
San Diego, CA 92126

Order No. 549593  
Sample No. 1178364

## SAMPLE INFORMATION

**Description** FP-23-0129 PlusCBD relief softgel 60ct SKU 608 exp 08/25  
**Lot Number** 3310395280  
**Category (Type)** Non-Inhalable Edible (Capsule)  
**Received** October 23, 2023

## ANALYTICAL RESULTS

**Analysis** Residual Solvent Screen ✔ Pass  
**Instrument** Gas Chromatography Mass Spectrometry (GC/MS)  
**Method** MF-CHEM-32  
**Analysis Date** October 23, 2023 to October 25, 2023

Analyte	LOD/LOQ (ppm)	Findings (ppm)	Limit (ppm)	Status
1,2-Dichloroethane	0.2/0.5	ND	1	Pass
Acetone	67/200	ND	5000	Pass
Acetonitrile	67/200	ND	410	Pass
Benzene	0.2/0.5	ND	1	Pass
n-Butane	67/200	ND	5000	Pass
Chloroform	0.2/0.5	ND	1	Pass
Ethanol	67/200	ND	5000	Pass
Ethyl acetate	67/200	ND	5000	Pass
Ethyl ether	67/200	ND	5000	Pass
Ethylene oxide	0.2/0.5	ND	1	Pass
n-Heptane	67/200	ND	5000	Pass
n-Hexane	67/200	ND	290	Pass
Isopropyl alcohol	67/200	ND	5000	Pass
Methanol	67/200	ND	3000	Pass
Methylene chloride	0.2/0.5	ND	1	Pass
n-Pentane	67/200	ND	5000	Pass
Propane	67/200	ND	5000	Pass
Toluene	67/200	ND	890	Pass
Total xylenes (ortho-, meta-, para-)	67/200	ND	2170	Pass
Trichloroethylene	0.2/0.5	ND	1	Pass

Reported by  
**Anresco, Inc.**

ND = None Detected

  
Alma Dorantes  
Analyst I



October 25, 2023

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October 25, 2023

**CV SCIENCES, INC.**  
9530 Padgett Street, Suite 107  
San Diego, CA 92126

Order No. 549593  
Sample No. 1178364

## SAMPLE INFORMATION

**Description** FP-23-0129 PlusCBD relief softgel 60ct SKU 608 exp 08/25  
**Lot Number** 3310395280  
**Category (Type)** Non-Inhalable Edible (Capsule)  
**Received** October 23, 2023

## ANALYTICAL RESULTS

**Analysis** Mycotoxins Screen ✔ Pass  
**Instrument** Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS) & Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS)  
**Method** MF-CHEM-13  
**Analysis Date** October 23, 2023 to October 25, 2023

Analyte	LOD/LOQ (ppb)	Findings (ppb)	Limit (ppb)	Status
Aflatoxin B1	2/5	ND	-	-
Aflatoxin B2	2/5	ND	-	-
Aflatoxin G1	2/5	ND	-	-
Aflatoxin G2	2/5	ND	-	-
Total Aflatoxins	8/20	ND	20	Pass
Ochratoxin A	6/18	ND	20	Pass

Reported by  
**Anresco, Inc.**

ND = None Detected

  


Alyssa Tabucan  
Analyst I

October 25, 2023

If there are any questions with this report, please contact "[compliance@anresco.com](mailto:compliance@anresco.com)".

October 24, 2023

**CV SCIENCES, INC.**  
9530 Padgett Street, Suite 107  
San Diego, CA 92126

Order No. 549593  
Sample No. 1178364

## SAMPLE INFORMATION

**Description** FP-23-0129 PlusCBD relief softgel 60ct SKU 608 exp 08/25  
**Lot Number** 3310395280  
**Category (Type)** Non-Inhalable Edible (Capsule)  
**Received** October 23, 2023

## ANALYTICAL RESULTS

**Analysis** PEA  
**Instrument** HPLC-DAD  
**Method** Micronized/ultramicrozoned palmitoylethanolamide displays superior oral efficacy compared to nonmicronized palmitoylethanolamide in a rat model of inflammatory pain, Journal of Neuroinflammation 2014, 11:136  
**Analysis Date** October 23, 2023 to October 24, 2023

Analyte	Findings (mg/softgel)
Palmitoylethanolamide	188

Reported by  
**Anresco, Inc.**

ND = None Detected

  


Cathy Cheng  
Senior Analyst

October 24, 2023

If there are any questions with this report, please contact "[compliance@anresco.com](mailto:compliance@anresco.com)".