



**Certificate of Analysis**

November 19, 2018

**Sample ID:** FP-18-1233

**Product name** Plus cbd oil hemp spray peppermint

**Batch/Lot#:** 8315319

**Strength:** 2oz 500mg

**Expiration:** 11/20

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

<u>Cannabinoid:</u>	<u>mg:</u>	<u>Method:</u>	<u>Analyst:</u>
<b>CBD</b>	<b>521.49</b>	HPLC	VK
CBDV	10.80	HPLC	VK
CBDA	26.52	HPLC	VK
CBG	7.04	HPLC	VK
CBGA	0.00	HPLC	VK
CBC	31.32	HPLC	VK
CBN	2.94	HPLC	VK
$\Delta^9$ -THC	16.50	HPLC	VK
THCA	0.00	HPLC	VK

**Total cannabinoids:** **616.6 mg**

**Sample size:** **54.00 g**

**THC by mass:** **0.0306 %**

  
NOV 19 2018

  
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Analyst \_\_\_\_\_ Date \_\_\_\_\_

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

Analytical Chemist

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

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

QA/QC Manager



# Certificate of Analysis

CV Sciences, Inc.

2688 South Rainbow Blvd.  
Las Vegas NV 89146  
Dalia Chandler

Sample

1811DBL0123.6287

Batch FP-18-1233

Lot 8315319

Ordered 11/20/2018

Completed 11/24/2018

Plus CBD Oil 2oz 500mg Green Hemp Spray Peppermint PS80 Free EXP 11/20

Cannabinoids				
	<b>488</b>	<b>0.90</b>	<b>54.0</b>	
	Total CBD (mg/unit)	% Total CBD	Unit weight (g)	
Cannabinoid	LOQ %	Mass %	Mass mg/g	Concentration
CBD	0.06	0.9	9.0	
CBDA	0.06	<LOQ	<LOQ	
δ9-THC	0.06	<LOQ	<LOQ	
THCA-A	0.06	<LOQ	<LOQ	
δ8-THC	0.06	<LOQ	<LOQ	
THCV	0.06	<LOQ	<LOQ	
CBDV	0.06	<LOQ	<LOQ	
CBDVA	0.06	<LOQ	<LOQ	
CBGA	0.06	<LOQ	<LOQ	
CBG	0.06	<LOQ	<LOQ	
CBN	0.06	<LOQ	<LOQ	
CBC	0.06	<LOQ	<LOQ	
CBL	0.06	<LOQ	<LOQ	

Total CBD = CBDA + CBD

Pesticides/Plant Growth Regulators			
Pesticides	Status	Sample (PPB)	LOQ (PPB)
Acequinocyl	PASS	<LOQ	10
Abamectin	PASS	<LOQ	10
Bifenazate	PASS	<LOQ	10
Fenoxycarb	PASS	<LOQ	10
Fludioxonil	PASS	<LOQ	10
Imidacloprid	PASS	<LOQ	10
Myclobutanil	PASS	<LOQ	10
Pyrethrin	PASS	<LOQ	10
Spinosad	PASS	<LOQ	10
Spiromesifen	PASS	<LOQ	10
Spirotetramat	PASS	<LOQ	10
Plant Growth Regulators			
Daminozide	PASS	<LOQ	10

Microbiology				
Quantitative Analysis	Status	Sample	LOQ	Limit
	Pass/Fail	CFU/g	CFU/g	CFU/g
Mold/Mildew/Yeast	PASS	100	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	67	46	2000
Cadmium	PASS	<LOQ	46	820
Mercury	PASS	<LOQ	46	400
Lead	PASS	<LOQ	46	1200

Residual Solvents		
Compound	Status	Limit (PPM)
Propane	PASS	500
Methanol	PASS	500
Isobutane	PASS	500
Ethanol	PASS	500
Isopropanol	PASS	500
Isopentane	PASS	500
n-Butane	PASS	500
n-Hexane	PASS	500
2,2-Dimethylbutane	PASS	500
3-Methylpentane	PASS	500
2-Methylpentane	PASS	500
Cyclohexane	PASS	500
Neopentane	PASS	500
n-Heptane	PASS	500
n-Pentane	PASS	500
Benzene	PASS	500



CV SCIENCES™  
A LIFE SCIENCE COMPANY

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Stacy Gardalen  
Director

*Kelly Zaugg*

Kelly Zaugg  
Quality Control



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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 (MMS# 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. This Certificate shall not be reproduced except in full, without the written approval of DB Labs.