

# **Certificate of Analysis**

## **Botanical Source**

Kentucky, USA industrial hemp, grown and processed in compliance with the Federal Farm Bill (Section 7606) as well as applicable Kentucky State Law and Kentucky Department of Agriculture regulations.

## **Product Description**

This product is cannabidiol derived from hemp, and manufactured through CO<sub>2</sub> extraction. CBD content is double validated through HPLC and Convergence Chromatography.

## **Additional Information**

Each batch sample may vary slightly. The values below represent batch analysis pertinent to each class of data. A Certificate of Analysis (COA) with exact values will be issued individually. Questions should be sent directly to precisionlabtesting@gmail.com

S	ample Information	
Client Name	Green Orca Pack	
Product Name	Chicken Rawhides	
Batch Number	CR469910	
Manufacture Date	10/31/2018	
Analysis Date	11/26/2018	
Expiration Date	11/2021	

Cannabinoid	Profile	& Potency	(HPLC)

Compound	mg/serving	mg/package
Cannabidiolic Acid (CBDA)	7.4mg	14.8mg
Cannabidiol (CBD)	155.1mg	310.1mg
Cannabigerol (CBG)	4.0mg	8.1mg
Cannabigerolic Acid (CBGA)	ND	ND
Cannabinol (CBN)	13.9mg	27.9mg
Cannabidivarin (CBDV)	ND	ND
Fetrahydrocannabinolic Acid THCA)	ND	ND
Tetrahydrocannabivarin THCV)	ND	ND
4-8-Tetrahydrocannabinol	ND	ND
Δ-9-Tetrahydrocannabinol	ND	ND

# Heavy Metal Analysis

Compound	PPM	RL
Lead	ND	0.010
Arsenic	ND	0.010
Cadmium	ND	0.010
Mercury	ND	0.001

	R	esidual Solv	ent Analysis		
The sample wa	as analyzed by Head				detected above
		c opace day cino		cj. No – None	detected above

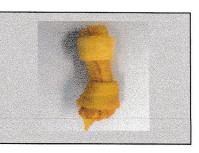
Compound	Method	Result
Acetone	HS-GC	NT
Ethanol	HS-GC	NT
Isopropanol	HS-GC	NT
Pentane	HS-GC	NT
Acetonitrile	HS-GC	NT
Hexane	HS-GC	NT
Isobutane	HS-GC	NT

# Terpene Analysis

Compound	Method	Result
A-Pinene	HS-GC	NT
Camphene	HS-GC	NT
B-Myrcene	HS-GC	NT
B-Pinene	HS-GC	NT
Δ-3-Carene	HS-GC	NT
A-Humulene	HS-GC	NT
Linalool	HS-GC	NT
Fenchone	HS-GC	NT
Trans-Nerolidol	HS-GC	NT
A-Bisabolol	HS-GC	NT
A-Terpineol	HS-GC	NT
Geraniol	HS-GC	NT
Pulegone	HS-GC	NT
B-Caryophyllene	HS-GC	NT

Ryan Jones, Chemical Engineer

Date 11/12/18





# **Certificate of Analysis**

## **Botanical Source**

Kentucky, USA industrial hemp, grown and processed in compliance with the Federal Farm Bill (Section 7606) as well as applicable Kentucky State Law and Kentucky Department of Agriculture regulations.

# **Product Description**

This product is cannabidiol derived from hemp, and manufactured through CO<sub>2</sub> extraction. CBD content is double validated through HPLC and Convergence Chromatography.

# **Additional Information**

Each batch sample may vary slightly. The values below represent batch analysis pertinent to each class of data. A Certificate of Analysis (COA) with exact values will be issued individually. Questions should be sent directly to <a href="mailto:precisionlabtesting@gmail.com">precisionlabtesting@gmail.com</a>

Residual Solvent Analysis

nple Information	
Green Orca Pack	
Pepperoni	
DP500469	
10/29/2018	
11/21/2018	
11/2021	
	Green Orca Pack Pepperoni DP500469 10/29/2018 11/21/2018

Compound	mg/serving	mg/package
Cannabidiolic Acid (CBDA)	1.5mg	14.6mg
Cannabidiol (CBD)	30.8mg	308.4mg
Cannabigerol (CBG)	0.8mg	7.9mg
Cannabigerolic Acid (CBGA)	ND	ND
Cannabinol (CBN)	2.9mg	28.9mg
Cannabidivarin (CBDV)	ND	ND
Tetrahydrocannabinolic Acid THCA)	ND	ND
Tetrahydrocannabivarin (THCV)	ND	ND
Δ-8-Tetrahydrocannabinol	ND	ND
Δ-9-Tetrahydrocannabinol	ND	ND

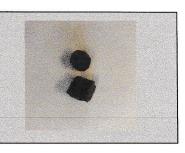
Compound	РРМ	RL
Lead	ND	0.010
Arsenic	ND	0.010
Cadmium	ND	0.010
Mercury	ND	0.001

he sample was analyzed by Head-Space Gas Chromatography(HS-GC). ND = None detected above 5 ppm.				
Compound	Method	Result		
Acetone	HS-GC	NT		
Ethanol	HS-GC	NT		
Isopropanol	HS-GC	NT		
Pentane	HS-GC	NT		
Acetonitrile	HS-GC	NT		
Hexane	HS-GC	NT		
Isobutane	HS-GC	NT	100	

Terpene Analysis			
Compound	Method	Result	
A-Pinene	HS-GC	NT	
Camphene	HS-GC	NT	
B-Myrcene	HS-GC	NT	
B-Pinene	HS-GC	NT	
Δ-3-Carene	HS-GC	NT	
A-Humulene	HS-GC	NT	
Linalool	HS-GC	NT	
Fenchone	HS-GC	NT	
Trans-Nerolidol	HS-GC	NT	
A-Bisabolol	HS-GC	NT	
A-Terpineol	HS-GC	NT	
Geraniol	HS-GC	NT	
Pulegone	HS-GC	NT	
B-Caryophyllene	HS-GC	NT	

ye Jenso

Ryan Jones, Chemical Engineer Date 11/12/18





# **Certificate of Analysis**

(Section 7606) as well as applicable Kentucky State Law and Kentucky Department of Agriculture regulations.

# **Product Description**

This product is cannabidiol derived from hemp, and manufactured through CO2 extraction. CBD content is double validated through HPLC and Convergence Chromatography.

# **Additional Information**

Each batch sample may vary slightly. The values below represent batch analysis pertinent to each class of data. A Certificate of Analysis (COA) with exact values will be issued individually. Questions should be sent directly to precisionlabtesting@gmail.com

Sample Information		
Client Name	Green Orca Pack	
Product Name	Cat Daily Treats	
Batch Number	CT469910	
Manufacture Date	10/29/2018	
Analysis Date	11/21/2018	
Expiration Date	11/2021	

Cannabinoid	l Profile &	Potency	(HPLC)

Compound	mg/serving	mg/package
Cannabidiolic Acid (CBDA)	0.5mg	14.5mg
Cannabidiol (CBD)	10.3mg	308.1mg
Cannabigerol (CBG)	0.3mg	7.8mg
Cannabigerolic Acid (CBGA)	ND	ND
Cannabinol (CBN)	0.9mg	28.8mg
Cannabidivarin (CBDV)	ND	ND
Tetrahydrocannabinolic Acid (THCA)	ND	ND
Tetrahydrocannabivarin (THCV)	ND	ND
Δ-8-Tetrahydrocannabinol	ND	ND
Δ-9-Tetrahydrocannabinol	ND	ND

# Heavy Metal Analysis

Compound	PPM	RL
Lead	ND	0.010
Arsenic	ND	0.010
Cadmium	ND	0.010
Mercury	ND	0.001

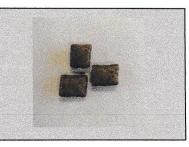
Residual Solvent Analysis
The sample was analyzed by Head-Space Gas Chromatography(HS-GC). ND = None detected above

Compound	Method	Result
Acetone	HS-GC	NT
Ethanol	HS-GC	NT
Isopropanol	HS-GC	NT
Pentane	HS-GC	NT
Acetonitrile	HS-GC	NT
Hexane	HS-GC	NT
Isobutane	HS-GC	NT

# Terpene Analysis

Compound	Method	Result
A-Pinene	HS-GC	NT
Camphene	HS-GC	NT
B-Myrcene	HS-GC	NT
B-Pinene	HS-GC	NT
Δ-3-Carene	HS-GC	NT
A-Humulene	HS-GC	NT
Linalool	HS-GC	NT
Fenchone	HS-GC	NT
Trans-Nerolidol	HS-GC	NT
A-Bisabolol	HS-GC	NT
A-Terpineol	HS-GC	NT
Geraniol	HS-GC	NT
Pulegone	HS-GC	NT
B-Caryophyllene	HS-GC	NT

Ryan Jones, Chemical Engineer Date 11/12/18



# Precision LAB Testing

P.O. Box 17384 Golden, Colorado 80402

# **Certificate of Analysis**

### **Botanical Source**

Kentucky, USA industrial hemp, grown and processed in compliance with the Federal Farm Bill (Section 7606) as well as applicable Kentucky State Law and Kentucky Department of Agriculture regulations.

## **Product Description**

This product is cannabidiol derived from hemp, and manufactured through  $CO_2$  extraction. CBD content is double validated through HPLC and Convergence Chromatography.

# **Additional Information**

Each batch sample may vary slightly. The values below represent batch analysis pertinent to each class of data. A Certificate of Analysis (COA) with exact values will be issued individually. Questions should be sent directly to precisionlabtesting@gmail.com

		Sample	Informatio	n		Residual Solvent	Analysis
Client 1	nt Name Green Orca Pack		The sample was analyzed b	The sample was analyzed by Head-Space Gas Chromatography(HS-GC). ND = None detected above 5 ppm.			
Produc	t Name		CBD Pills 1	500	Compound	Method	Result
Batch N	lumber		GP5005011		Acetone	HS-GC	NT
Manufa	acture Date		10/30/20	8	Ethanol	HS-GC	NT
Analysi	s Date		11/27/2018		Isopropanol	HS-GC	NT
Expirat	ion Date		11/2021		Pentane	HS-GC	NT
	Canna	abinoid Pro	ofile & Pote	ncy (HPLC)	Acetonitrile	HS-GC	NT
	Compound		mg/serving	mg/package	Hexane	HS-GC	NT "
	Cannabidiolic Ac	eid (CBDA)	0.7mg	21mg	Isobutane	HS-GC	NT
	Cannabidiol (CBI	D)	53.1mg	1,593mg		Terpene Ana	alysis
	Cannabigerol (CI	BG)	0.9mg	27mg	Compound	Method	Result
	Cannabigerolic A	Acid (CBGA)	ND	ND	A-Pinene	HS-GC	NT
	Cannabinol (CBN	n	0.3mg	9mg	Camphene	HS-GC	NT
	Cannabidivarin (	(CBDV)	ND	ND	B-Myrcene	HS-GC	NT
	Tetrahydrocann		ND	ND	B-Pinene	HS-GC	NT
	(THCA)				Δ-3-Carene	HS-GC	NT
	Tetrahydrocann (THCV)	abivarin	ND	ND	A-Humulene	HS-GC	NT
	Δ-8-Tetrahydro	cannabinol	ND	ND	Linalool	HS-GC	NT
	Δ-9-Tetrahydro	cannabinol	ND	ND	Fenchone	HS-GC	NT
	Heavy Metal Analysis		Trans-Nerolidol	HS-GC	NT		
Compo	ound	РРМ	RL		A-Bisabolol	HS-GC	NT
Lead		ND	0.010		A-Terpineol	HS-GC	NT.
Arseni	ic	ND	0.010		Geraniol	HS-GC	NT
Cadmium ND		0.010		Pulegone	HS-GC	NT	

Ryan Jones, Chemical Engineer Date 11/12/18

0.001

ND

Packaged Product Image Not Available

B-Caryophyllene

HS-GC



NT

Mercury



# **Certificate of Analysis**

## **Botanical Source**

Kentucky, USA industrial hemp, grown and processed in compliance with the Federal Farm Bill (Section 7606) as well as applicable Kentucky State Law and Kentucky Department of Agriculture regulations.

## **Product Description**

This product is cannabidiol derived from hemp, and manufactured through CO<sub>2</sub> extraction. CBD content is double validated through HPLC and Convergence Chromatography.

## **Additional Information**

Each batch sample may vary slightly. The values below represent batch analysis pertinent to each class of data. A Certificate of Analysis (COA) with exact values will be issued individually. Questions should be sent directly to precisionlabtesting@gmail.com

Sample Information		
Client Name	Green Orca Pack	
Product Name	CBD Pills 750	
Batch Number	GP5002511	
Manufacture Date	10/30/2018	
Analysis Date	11/21/2018	
Expiration Date	11/2021	

Cannabinoid	Profile 8	Potency	(HPLC)
	STREET, STREET	A WARRY CONTRACT PROPERTY	The second second second

Compound	mg/serving	mg/package
Cannabidiolic Acid (CBDA)	0.4mg	72mg
Cannabidiol (CBD)	26.4mg	792mg
Cannabigerol (CBG)	0.5mg	15mg
Cannabigerolic Acid (CBGA)	ND	ND
Cannabinol (CBN)	0.1mg	3mg
Cannabidivarin (CBDV)	ND	ND
Fetrahydrocannabinolic Acid THCA)	ND	ND
Fetrahydrocannabivarin THCV)	ND	ND
∆-8-Tetrahydrocannabinol	ND	ND
Δ-9-Tetrahydrocannabinol	ND	ND

# Heavy Metal Analysis

Compound	PPM	RL
Lead	ND	0.010
Arsenic	ND	0.010
Cadmium	ND	0.010
Mercury	ND	0.001

Residual Solvent Analysis
The sample was analyzed by Head-Space Gas Chromatography(HS-GC). ND = None detected above

Compound	Method	Result
Acetone	HS-GC	NT
Ethanol	HS-GC	NT
Isopropanol	HS-GC	NT
Pentane	HS-GC	NT
Acetonitrile	HS-GC	NT
Hexane	HS-GC	NT
Isobutane	HS-GC	NT

Compound	Method	Result
A-Pinene	HS-GC	NT
Camphene	HS-GC	NT
B-Myrcene	HS-GC	NT
B-Pinene	HS-GC	NT
Δ-3-Carene	HS-GC	NT
A-Humulene	HS-GC	NT
Linalool	HS-GC	NT
Fenchone	HS-GC	NT
Trans-Nerolidol	HS-GC	NT
A-Bisabolol	HS-GC	NT
A-Terpineol	HS-GC	NT
Geraniol	HS-GC	NT
Pulegone	HS-GC	NT
B-Caryophyllene	HS-GC	NT

Ryan Jones, Chemical Engineer

Date 11/12/18

