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Client Name: Green Orca Pack  
 Date: 2/20/2019  
 Sample ID No.: 48891

## CERTIFICATE OF ANALYSIS: Peanut Butter CBD Oral Syringe 50mg

### Product Name

Peanut Butter CBD Oral Syringe 50mg

### Product Code

PBORAL50

### Batch No.

Batch 3043

### Botanical Source

Industrial Hemp, grown and processed in Kentucky, USA in compliance with Section 7606 of the Farm Bill and applicable Kentucky State Law and State Department of Agriculture regulations.

### Product Description

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

### Additional Information

The values below represent batch analysis with pertinent data for each class of data. Each batch or sample may vary slightly; a certificate of analysis (COA) with exact values will be issued with each order. Questions or concerns can be directed to [biokineticlab@gmail.com](mailto:biokineticlab@gmail.com).

## Qualitative Analysis

OBSERVATION	METHOD	RESULT
Foreign Matter	Gross Visual/Microscopic	Absent
Color	Gross Visual/Microscopic	Light Brown
Molds & Mildews	Gross Visual/Microscopic	Absent
Smell	Gross Visual/Microscopic	Absent
Product Feel	Gross Visual/Microscopic	Creamy

## Quantitative Analysis

### Physical

IDENTIFICATION	METHOD	RESULT
% Moisture	AOAC 4.1.03	NT

### Microbial Analysis

IDENTIFICATION	METHOD	RESULT
Standard Plate Count	BAM-3	NEGATIVE
Total Aflatoxin	AOAC 49.2.05	NEGATIVE
Total Yeast	BAM-18	NEGATIVE
Total Mold	BAM-18	NEGATIVE



### Cannabinoid Analysis

IDENTIFICATION	METHOD	RESULT
Cannabinoid	HPLC-DAD	%wt/wt
Cannabidiolic Acid (CBDA)	HPLC-DAD	0.7mg per syringe
Cannabidiol (CBD)	HPLC-DAD	53.2mg per syringe
Cannabidivarin (CBDV)	HPLC-DAD	N/D
Tetrahydrocannabinolic Acid	HPLC-DAD	N/D
$\Delta$ -9-Tetrahydrocannabinol	HPLC-DAD	N/D
Cannabinol (CBN)	HPLC-DAD	0.3mg per syringe
Cannabigerol (CBG)	HPLC-DAD	0.9mg per syringe

### Terpene Analysis

IDENTIFICATION	METHOD	RESULT
Trans-Nerolidol	NT	NT
A-bisabolol	NT	NT
B-caryophyllene	NT	NT
Humulene	NT	NT
Terpineol	NT	NT
Limonene	NT	NT
A-phellandrene	NT	NT

### Heavy Metal Analysis

IDENTIFICATION	METHOD	RESULT
Arsenic	6010B	N/D
Cadmium	6010B	N/D
Chromium	6010B	N/D
Lead	6010B	N/D
Mercury	6010B	N/D

### Pesticide Analysis

IDENTIFICATION	METHOD	RESULT
Multi Residue Pesticide Analysis	AOAC 2007.1	N/D

### Residual Solvent Analysis

IDENTIFICATION	METHOD	RESULT
Hexanes	GC/MS HEADSPACE	N/D
Acetone	GC/MS HEADSPACE	N/D
Ethanol	GC/MS HEADSPACE	N/D
Isopropyl Alcohol	GC/MS HEADSPACE	N/D









