



CANNABINOIDS TEST REPORT

Date of Delivery: 02/26/2019

Type of Sample: REG WATERSOL EXTRA STRENGTH-NATURAL

Date of Analysis: 02/27/2019

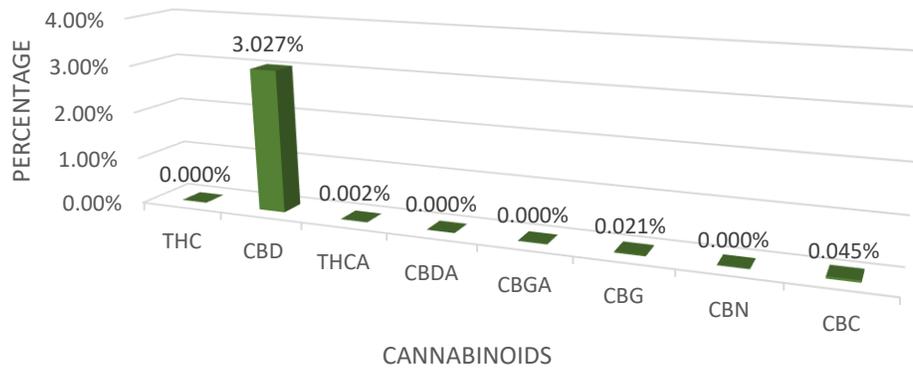
Method: HPLC-UV

Sample Name: REG Watersol-ES

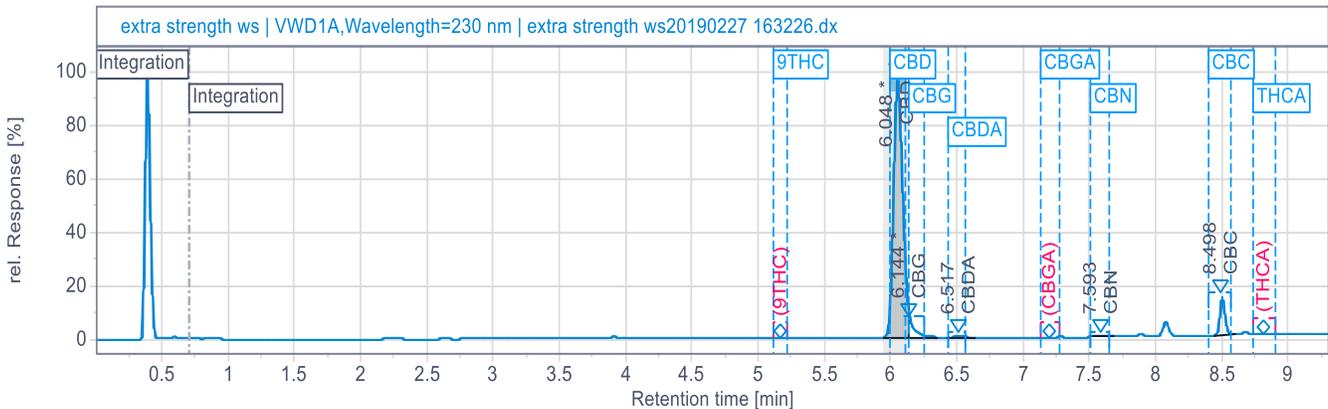
Lab Address: 2405 Southwest Blvd, Kansas City, MO 64108

CANNABINOIDS PROFILE w/w%

THC	CBD	THCA	CBDA	CBGA	CBG	CBN	CBC
N/D	3.027%	0.002%	N/D	N/D	0.021%	N/D	0.045%



CHROMATOGRAM

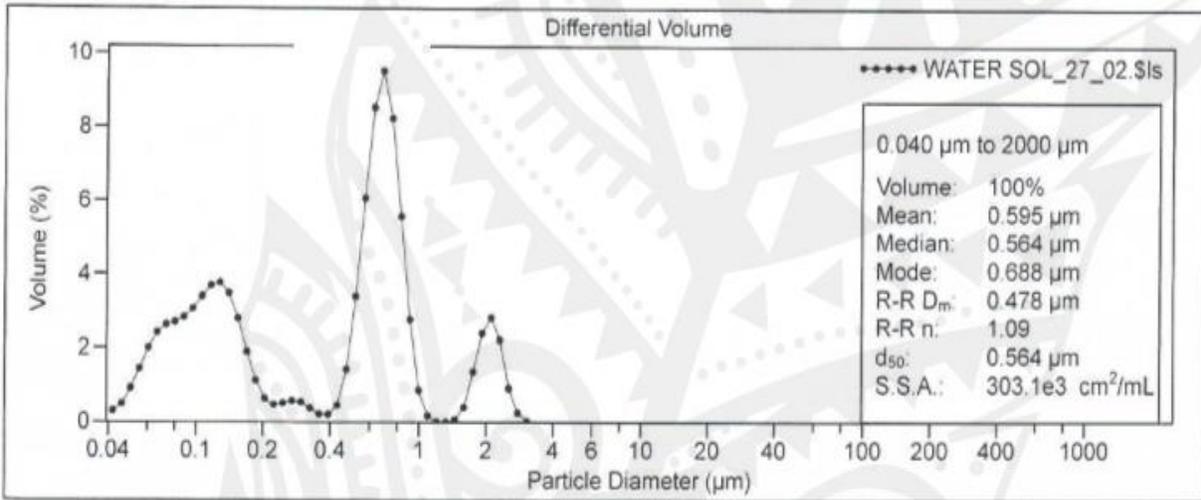


CBD Content	THC Content
30.27 mg/ml	<2.0 mg/ml

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 Spec: %RSD: ≤ 2.0 Spec: USP Tailing: ≤ 2.0
 Spec: Check STD Diff.: ≤ ±2.0%
 Spec: Tangent Resolution: ≥ 2.0



File name: C:\LS13320\DATA\WATER SOL_27_02.\$ls
 WATER SOL_27_02.\$ls
 File ID: WATER SOL
 Optical model: Fraunhofer.rf780d PIDS: Submicron-only
 Start time: 1:03



Volume Statistics (Arithmetic) WATER SOL_27_02.\$ls

Calculations from 0.040 µm to 2000 µm

Volume: 100%
 Mean: 0.595 µm
 Median: 0.564 µm
 Mean/Median ratio: 1.054
 Mode: 0.688 µm

d₅₀: 0.564 µm d₉₀: 1.671 µm

<10%	<25%	<50%	<75%	<90%
0.076 µm	0.120 µm	0.564 µm	0.748 µm	1.671 µm
>10%	>25%	>50%	>75%	>90%
1.671 µm	0.748 µm	0.564 µm	0.120 µm	0.076 µm
<1 µm	<10 µm	<100 µm	<1000 µm	
88.9%	100%	100%	100%	
>1 µm	>10 µm	>100 µm	>1000 µm	
11.1%	0%	0%	0%	



Particle Sizer analyzer

CBD American shaman utilizes a particle size analyzer to ensure that the batches created are at the correct particle size to increase the bioavailability of the product.

Particle size analysis is an important test and is used for quality control in many different industries. In just about every industry where milling or grinding is used, particle size is a critical factor in determining the efficiency of manufacturing processes and performance of the final product. Some industries and product types where particle sizing is used includes:

- Pharmaceuticals
- Building materials
- Paints and coatings
- Food and beverages
- Aerosols

The most commonly used metrics when describing particle size distributions are the D-values (d10, d50, d90) which are the intercepts for 10% 50% and 90% of the cumulative mass.

D-values can be thought of as the diameter of the sphere which divides the sample's mass into a specified percentage when the particles are arranged on an ascending mass basis.

For example, the D10 is the diameter at which 10% of the sample's mass is comprised of particles with a diameter less than this value. The D50 is the diameter of the particle that 50% of a sample's mass is smaller than and 50% of a sample's mass is larger than.

**On the Report given the d50 value is 0.564um (0.564-microns). Which converts to 56.4 nanometer, hence, why its called nano technology. So, if you were explaining it to someone: of the entire homogenous solution produced half of the particles are at 56.4 nanometers.

**Each peak represents clusters of particle sizes.

**All batch results have metrics taken on the particle size to maintain a consistent product to our customers. Once the batch has reached the desired particle size the batch is finalized and transferred to the quality control department to ensure the quality of the material.

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