

CANNABINOIDS TEST REPORT

Date of Delivery: 02/26/2019			Type of Sample: REG WATERSOL-NATURAL					
Date of Analy	vsis: 02/27/20	19	Method: HPLC-UV					
Sample Name: REG Watersol			Lab Address: 2405 Southwest Blvd, Kansas City, MO 64108					
CANNABINOIDS PROFILE w/w%								
THC	CBD	THCA	CBDA	CBGA	CBG	CBN	CBC	
N/D	1.071%	0.001%	N/D	N/D	0.013%	N/D	0.024%	



CHROMATOGRAM





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Spec: Tangent Resolution: ≥ 2.0



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



Volume Statistics (Arithmetic)		WATER SOL	_27_02.\$ls	
Calculation	s from 0.040 µr	m to 2000 µm		
Volume: Mean: Median: Mean/Media Mode:	100 0.59 0.56 an ratio: 1.05 0.68	% 5 μm 4 μm 4 μm		
d ₅₀ : 0.564	µm 🔨	d ₉₀ : 1.67	1 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	EL.
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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