

CERTIFICATE OF ANALYSIS

LOT#: APM18042 DATE: 8/16/2018

Phyto Animal Health Vitality X (1000mg CBD) 4oz

This Certificate represents exact test data from Third Party Lab analysis, performed in accordance with the requirements of ISO/IEC 17025, and is reported in its entirety.

Cannabinoid Profile & Potency

The client sample was analyzed for plant-based cannabinoids by Convergence Chromatography (CC). The collected data was compared to data collected for certified reference standards at known concentrations.

ID	Weight %	Conc.
D9-THC	ND	ND
THCV	ND	ND
CBD	0.87 wt %	8.30 mg/mL
CBDV	ND	ND
CBG	ND	ND
CBC	ND	ND
CBN	ND	ND
THCA	ND	ND
CBDA	ND	ND
CBGA	ND	ND
Total	0.87 wt %	8.30 mg/mL
Max THC	-	-
Max CBD	0.87 wt %	8.30 mg/mL

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: Max THC= $(0.877 \times THCA) + THC$. ND = None detected above the limits of detection (LLD)

Microbials

Analyte	Presence	Status
Aspergillus flavus	Not Detected	PASS
Aspergillus fumigatus	Not Detected	PASS
Aspergillus niger	Not Detected	PASS
Aspergillus Terreus	Not Detected	PASS
Shiga toxin-producing E. Coli	Not Detected	PASS
Salmonella	Not Detected	PASS

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Solvents Test Method: HSGCMS-SOP 202 LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

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Analyte	LOD (ppm)	LOQ (ppm)	Limit (ppm)	Units (ppm)	Status	
1,2-Dichloro-Ethane	0.100	30.000	0.100	ND	PASS	
Acetone	3.800	250.000	500.000	ND	PASS	
Acetonitrile	0.500	1.000	410.000	ND	PASS	
Benzene	0.000	12.000	0.001	ND	PASS	
Butane	0.800	2500.000	5000.000	ND	PASS	
Chloroform	0.100	360.000	0.100	ND	PASS	
Ethanol	3.800	2500.000	5000.000	<loq< td=""><td>PASS</td><td></td></loq<>	PASS	
Ethyl-Acetate	3.800	2500.000	5000.000	ND	PASS	
Ethyl-Ether	3.400	2500.000	5000.000	ND	PASS	
Ethylene Oxide	0.200	300.000	0.200	ND	PASS	
Heptane	4.500	2500.000	5000.000	ND	PASS	
Isopropanol	4.600	100.000	5000.000	ND	PASS	
Methanol	5.300	200.000	3000.000	<loq< td=""><td>PASS</td><td></td></loq<>	PASS	
Methylene-Chloride	0.900	2500.000	0.900	ND	PASS	
n-Hexane	0.400	70.000	290.000	ND	PASS	
Pentane	3.900	2500.000	5000.000	ND	PASS	
Propane	0.300	2500.000	5000.000	ND	PASS	
Toluene	1.700	30.000	890.000	ND	PASS	
Trichloroethene	0.100	480.000	0.100	ND	PASS	
Xylenes	2.400	10.000	2170.000	ND	PASS	

LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.

Heavy Metals Testing method: ICPMS-SOP 501

Analyte	Mass (ppb)	LOQ (ppb)	LOD (ppb)	Limit (ppb)	Status	
Arsenic	<loq< td=""><td>10.000</td><td>10.000</td><td>200.000</td><td>PASS</td><td></td></loq<>	10.000	10.000	200.000	PASS	
Cadmium	<loq< td=""><td>10.000</td><td>10.000</td><td>200.000</td><td>PASS</td><td></td></loq<>	10.000	10.000	200.000	PASS	
Lead	<loq< td=""><td>10.000</td><td>10.000</td><td>500.000</td><td>PASS</td><td></td></loq<>	10.000	10.000	500.000	PASS	
Mercury	<loq< td=""><td>10.000</td><td>10.000</td><td>100.000</td><td>PASS</td><td></td></loq<>	10.000	10.000	100.000	PASS	

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