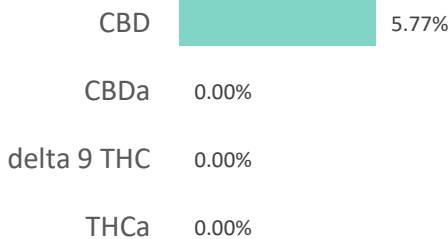
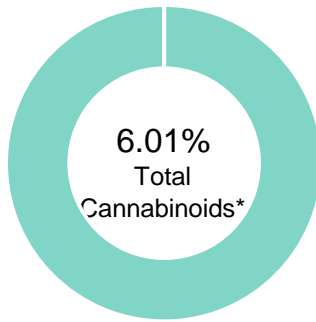


KAO Tropical 1500

Batch ID:	A101020320	Test ID:	4806867.0044
Reported:	16-Apr-2020	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.01	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.01	ND	ND
Cannabidiolic acid (CBDA)	0.03	ND	ND
Cannabidiol (CBD)	0.01	5.77	57.7
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.01	ND	ND
Cannabinolic Acid (CBNA)	0.02	ND	ND
Cannabinol (CBN)	0.01	0.06	0.6
Cannabigerolic acid (CBGA)	0.01	ND	ND
Cannabigerol (CBG)	0.01	0.06	0.6
Tetrahydrocannabivarinic Acid (THCVA)	0.01	ND	ND
Tetrahydrocannabivarin (THCV)	0.01	ND	ND
Cannabidivarinic Acid (CBDVA)	0.02	ND	ND
Cannabidivarin (CBDV)	0.01	0.04	0.4
Cannabichromenic Acid (CBCA)	0.01	ND	ND
Cannabichromene (CBC)	0.01	0.08	0.8
Total Cannabinoids		6.01	60.10
Total Potential THC**		ND	ND
Total Potential CBD**		5.77	57.70

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)


* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa * (0.877)) and Total CBD = CBD + (CBDa * (0.877))
 ND = None Detected (Defined by Dynamic Range of the method)

NOTES:

N/A

FINAL APPROVAL


Daniel Weidensaul
 16-Apr-2020
 2:55 PM



Ben Minton
 16-Apr-2020
 3:26 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02



CERTIFICATE OF ANALYSIS

Item#: 32077

Manufacture Date: 04/2020


Customer: KAO


Expiration Date: 04/2022

Product Name: Tincture Full
Spectrum 1500 mg (1 oz – 30 serv)
Tropical

Lot#: A101020320

<u>Analysis</u>	<u>Method</u>	<u>Limits</u>	<u>Results</u>
Description	Organoleptic	Colorless to yellow, clear oily liquid with characteristic aroma	Colorless, clear oily liquid with characteristic aroma
Identification	USP <197A>	NLT 90.0% correlation (sample IR spectrum matches reference standard spectrum)	100.0%
Microbial Limits	USP <2021>/QA SOP06112019 AOAC/QA SOP06112019 USP <2022> /QA SOP06112019 USP <2022> /QA SOP06112019 USP <2022> /QA SOP06112019	Total Plate Count: NMT 10 ⁴ cfu/mL Yeast & Mold: NMT 10 ³ cfu/mL E. coli: Absent in 10mL Salmonella: Absent in 10mL S. aureus: Absent in 10mL	<10,000 cfu/mL <1,000 cfu/mL Absent/10mL Absent/10mL Absent/10mL
CBD Content	Botanacore TM14	NLT 45 mg/serving	54 mg/serving
THC Content	Botanacore TM14	<0.3%	0.0%
Heavy Metals	USP <2232> USP <2232> USP <2232> USP <2232>	Arsenic: NMT 3 ppm Cadmium: NMT 1 ppm Lead: NMT 1 ppm Mercury: NMT 1 ppm	0.012 ppm <0.01 ppm <0.01 ppm <0.01 ppm

QC Signature: 
 Jeff Hatley
 Date: 4/21/2020

QA Signature: 
 Jessica Roberts
 Date: 4/21/2020