



# CERTIFICATE OF ANALYSIS

Report Status: **RELEASED**  
 Report Date: **1/28/2020**  
 Sante Sample ID: **20A017**  
 Page 1 of 3

<b>Company Name:</b> Natural Doggie <b>Address:</b> 650 North Carriage Parkway; Wichita, KS 67208-4515 <b>Phone Number:</b> 866-448-0573	<b>Contact Name:</b> Casey Almanza <b>Contact Email:</b> info@naturaldoggie.com <b>Purchase Order Number:</b> N/A
<b>Sample Name:</b> 20A017 <b>Sample Lot Number:</b> NBD191003T250B <b>Sample Received:</b> 1/20/2020	<b>Sample/Product Description:</b> Full Spectrum, Natural Doggie, Organic CBD Oil <b>Sample/Product Type:</b> CBD <b>Sample Matrix:</b> Oil

ANALYSIS	TEST METHOD	LOQ	SPECIFICATIONS	RESULTS	PASS/NO PASS
<b>Cannabinoids Assay</b>					
CBD	UHPLC-DAD	0.02 w/w%	7.5 mg/mL to 9.2 mg/mL	0.861 w/w% 8.615 mg/g 8.134 mg/mL	PASS
CBDa		0.02 w/w%	Report Only	Not Detected	Results Reported
Δ9-THC		0.02 w/w%	NMT 0.3 w/w%	0.037 w/w% 0.374 mg/g 0.353 mg/mL	PASS
THCa		0.02 w/w%	Report Only	Not Detected	Results Reported
CBN		0.02 w/w%	Report Only	0.002 w/w% 0.022 mg/g 0.020 mg/mL	Results Reported
CBG		0.02 w/w%	Report Only	0.005 w/w% 0.049 mg/g 0.046 mg/mL	Results Reported
CBGa		0.02 w/w%	Report Only	Not Detected	Results Reported
CBDV		0.02 w/w%	Report Only	0.004 w/w% 0.038 mg/g 0.036 mg/mL	Results Reported
CBDVa		0.02 w/w%	Report Only	Not Detected	Results Reported
THCV		0.02 w/w%	Report Only	Not Detected	Results Reported
THCVa		0.02 w/w%	Report Only	Not Detected	Results Reported
Δ8-THC		0.02 w/w%	Report Only	<0.0015 w/w% <0.015 mg/g <0.014 mg/mL	Results Reported
CBL		0.02 w/w%	Report Only	0.002 w/w% 0.018 mg/g 0.017 mg/mL	Results Reported
CBC		0.02 w/w%	Report Only	0.030 w/w% 0.304 mg/g 0.287 mg/mL	Results Reported
CBCa		0.02 w/w%	Report Only	Not Detected	Results Reported
<b>Residual Solvent Screen</b>					
Butanes	GC-FID	0.008 w/w%	500 ppm	Not Detected	PASS
Ethanol		0.008 w/w%	Report Only	Not Detected	Report Results
Heptanes		0.008 w/w%	500 ppm	Not Detected	PASS

For any questions related to this Certificate of Analysis please contact Customer Service at 512-800-9117

Released and Prepared by Sante Laboratories, LLC. Reported results refer exclusively to items tested.

**THIS CERTIFICATED MAY NOT BE REPRODUCED PARTIALLY WITHOUT WRITTEN PERMISSION BY SANTE LABORATORIES, LLC.**



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<b>Sample Name:</b> 20A017 <b>Sample Lot Number:</b> NBD191003T250B <b>Sample Received:</b> 1/20/2020	<b>Sample/Product Description:</b> Full Spectrum, Natural Doggie, Organic CBD Oil <b>Sample/Product Type:</b> CBD <b>Sample Matrix:</b> Oil

Isobutane		0.008 w/w%	500 ppm	Not Detected	PASS
Pentane		0.008 w/w%	Report Only	Not Detected	Report Results
Propane		0.008 w/w%	500 ppm	Not Detected	PASS

### Heavy Metals

Lead	ICP-MS	5 ppb	Report Only	<5 ppb	Results Reported
Mercury		3 ppb	Report Only	<3 ppb	Results Reported
Arsenic		5 ppb	Report Only	<5 ppb	Results Reported
Cadmium		3 ppb	Report Only	<3 ppb	Results Reported

### Density

Density	Gravimetric	0.1 g/mL	Report Only	0.9442 g/mL	Results Reported
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### TESTING FACILITY INFORMATION

### SAMPLE INFORMATION

<b>Sante Laboratories, LLC.</b> Hemp Testing Laboratory 8201 East Riverside Drive, Suite 650 Austin, Texas 78744 USA	<b>Sante Sample ID:</b> 20A017 <b>Receipt Date:</b> 1/20/2020 <b>Receipt Condition:</b> Good Condition <b>Start Date:</b> 1/21/2020
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### VERSION HISTORY

Version	Effective Date	Summary of Changes
00	1/28/2020	Initial Release
01	1/30/2020	Per customer request, updated Company Name, Contact Name, and Contact Email. Removed microbiology test section.

### QUALITY ASSURANCE

DocuSigned by:  <b>Signature:</b> <u>Brian Sloat</u> <b>Date:</b> <u>4 February 2020</u>	<b>Name:</b> <u>Brian R. Sloat, Ph.D.</u> <b>Title:</b> <u>Quality Manager</u>
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<b>Sample Name:</b> 20A017 <b>Sample Lot Number:</b> NBD191003T250B <b>Sample Received:</b> 1/20/2020	<b>Sample/Product Description:</b> Full Spectrum, Natural Doggie, Organic CBD Oil <b>Sample/Product Type:</b> CBD <b>Sample Matrix:</b> Oil

## LEGEND KEY

<b>N/A:</b> Not Applicable <b>ND:</b> Not Detected <b>NMT:</b> No More Than <b>NLT:</b> No Less Than <b>LOD:</b> Limit of Detection <b>LOQ:</b> Limit of Quantitation <b>LFIR:</b> Laboratory Failure Investigation Report <b>RT:</b> Retention Time <b>RRT:</b> Relative Retention Time <b>USP:</b> United States Pharmacopeia <b>ID:</b> Identification <b>CV:</b> Coefficient of Variation <b>CFU:</b> Colony Forming Units <b>LR:</b> Lot Release	<b>LNCR:</b> Laboratory Non-Conformance Report <b>RP-UHPLC-DAD:</b> Reverse Phase Ultra High-Performance Liquid Chromatography with Diode Array Detector <b>MS/MS:</b> Mass Spectroscopy (Quadrupole) <b>PPM:</b> Parts Per Million <b>PPB:</b> Parts Per Billion <b>DLS:</b> Dynamic Light Scattering <b>MG:</b> Milligrams <b>G:</b> Grams <b>MCG:</b> Micrograms <b>NM:</b> Nanometers <b>PDI:</b> Polydispersity Index <b>ML:</b> Milliliters <b>ISO:</b> International Organization for Standardization
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## ADDITIONAL REPORT NOTES

Test method have been validated to meet regulatory standards. Total Potential THC = (THCa x 0.877) + ( $\Delta$ 9THC) + ( $\Delta$ 8THC). Total Potential CBD = (CBDa x 0.877) + (CBD). Total Cannabinoids is summation of all tested and detectable cannabinoids. Samples are gravimetrically prepared using qualified balances that are calibrated annually by Mettler-Toledo using NIST-traceable weights. Verification of calibration is performed routinely (e.g. weekly) using NIST-traceable to ensure safe and accurate weighting processes between manufacture performed calibration. Individual balances have been assigned minimum weights taking into consideration the balance and environmental conditions to ensure weighting complies with acceptable tolerances. Cannabinoids for hemp flower and trim is analyzed and reported as received unless requested otherwise. Unless otherwise specified, all QC samples performed within specifications established using validated test methods. Reported results refer exclusive to items tested and have been tested by Sante Laboratories, unless specified otherwise.