

N.N. Analytics

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Certificate of Analysis – CBD Distillate – Zero THC

Customer Name:	Date of Sample Receipt:	Date of Analysis:	Lot #:
Nude CBD 10054 Mesa Ridge Ct. San Diego, CA 92121	November 19 th , 2019	November 20 th , 2019	G102
Analyte:	Description:	CAS Number:	
Cannabidiol (CBD)	Cannabinoid from US-Grown Hemp	13956-29-1	

Scope of Method:

**CBD Purity
Testing by
GC/MS and/or
LC/MS:**

Sample is mixed thoroughly. IR spectrum is determined using NIR. For quantitative analysis of CBD, other cannabinoids, and its impurities, a 100ug sample is taken and diluted 10:1 with methanol, capped, mixed, and injected into the GC/MS and/or LC/MS systems. Analyte identification is confirmed by retention time, abundance, and mass fragment ions. Results are obtained by comparing relative peak areas to the total peak area.

Characteristic:	Units:	Nude CBD Specification:	Sample Results:
Appearance	N/A	Yellow to orange Amorphous Solid	Yellow Amorphous Solid
Total CBD	Abundance (Area %)	> 80.0%	87.643%
Total CBD-A	Abundance (Area %)	N/A	<LOD
Total CBDV	Abundance (Area %)	N/A	<0.288%
Total CBDV-A	Abundance (Area %)	N/A	<LOD
Total CBC	Abundance (Area %)	N/A	<LOD
Total CBC-A	Abundance (Area %)	N/A	<LOD
Total CBG	Abundance (Area %)	N/A	0.975%
Total CBG-A	Abundance (Area %)	N/A	<LOD
Total CBN	Abundance (Area %)	N/A	<LOD
Total CBL	Abundance (Area %)	N/A	<LOD
Total Δ9-THC	Abundance (Area %)	(Δ9-THC + Δ8-THC + THC-A) = < 0.3%	<LOD

Characteristic:	Units:	Nude CBD Specification:	Sample Results:
Total Δ8-THC	Abundance (Area %)	(Δ9-THC + Δ8-THC + THC-A) = < 0.3%	<LOD
Total THC-A	Abundance (Area %)	(Δ9-THC + Δ8-THC + THC-A) = < 0.3%	<LOD
Total THCV	Abundance (Area %)	N/A	<LOD
Total THCV-A	Abundance (Area %)	N/A	<LOD
Total impurities	Abundance (Area %)	1.0% max	ND
Total CBD Content (CBD + CBD-A)	Abundance (Area %)	> 80.0%	87.643%
Total THC Content (Δ9-THC + Δ8-THC + THC-A)	Abundance (Area %)	<LOD	<LOD
Total Cannabonoid Content	Abundance (Area %)	N/A	88.906%
Pass?	Results are within specification:		PASS

<LOD = Below limit of Detection / ND = Not Detected / 1ug/mL = 1ppm / 1000ug/mL = 1mg/mL

*Denotes that results shown are from a sample that was retested for accuracy.

The above results are guaranteed accurate and precise to the best of our ability. Data has been checked and in accordance with N.N. Analytics' approved analytical protocols. I certify that all results in this report are adherent to this statement:

Analytical Technician(s):	Signature & Date:	Checked By:	Signature & Date:
D. Matthews	<i>D. Matthews</i> 11-21-2019	J. Rubenstein	<i>J. Rubenstein</i> 11-21-2019

Notes: Samples were received in good condition with factory seals intact. The checker's signature on this document is an assurance that the samples quantitated were verified to have met N.N. Analytics Inc.'s chain-of-custody requirements. This document was drafted in Microsoft Word, exported as an Adobe PDF, and digitally signed by the checker. It contains two pages.

