

## N.N. Analytics

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### Certificate of Analysis – CBD Isolate

Customer Name:	Date of Sample Receipt:	Date of Analysis:	Lot #:
Nude CBD 10054 Mesa Ridge Ct. San Diego, CA 92121	March 18 <sup>th</sup> , 2019	March 20 <sup>th</sup> , 2019	D107
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	White to off-white crystalline solid	<b>White crystalline Solid</b>
IR Spectrum	N/A	Conforms to the Standard Spectrum	<b>Conforms</b>
Total CBD	Abundance (Area %)	>99.0%	<b>99.688%</b>
Total CBD-A	Abundance (Area %)	N/A	<b>&lt;LOD</b>
Total CBDV	Abundance (Area %)	N/A	<b>0.212%</b>
Total CBDV-A	Abundance (Area %)	N/A	<b>&lt;LOD</b>
Total CBC	Abundance (Area %)	N/A	<b>&lt;LOD</b>
Total CBC-A	Abundance (Area %)	N/A	<b>&lt;LOD</b>
Total CBG	Abundance (Area %)	N/A	<b>&lt;LOD</b>
Total CBG-A	Abundance (Area %)	N/A	<b>&lt;LOD</b>
Total CBN	Abundance (Area %)	N/A	<b>&lt;LOD</b>
Total CBL	Abundance (Area %)	N/A	<b>&lt;LOD</b>

Characteristic:	Units:	Nude CBD Specification:	Sample Results:
Total Δ9-THC	Abundance (Area %)	(Δ9-THC + Δ8-THC + THC-A) = ND	<LOD
Total Δ8-THC	Abundance (Area %)	(Δ9-THC + Δ8-THC + THC-A) = ND	<LOD
Total THC-A	Abundance (Area %)	(Δ9-THC + Δ8-THC + THC-A) = ND	<LOD
Total THCV	Abundance (Area %)	N/A	<LOD
Total THCV-A	Abundance (Area %)	N/A	<LOD
Total impurities	Abundance (Area %)	0.5% max	ND
Total CBD Content (CBD + CBD-A)	Abundance (Area %)	99.0% Min	<b>99.688%</b>
Total THC Content (Δ9-THC + Δ8-THC + THC-A)	Abundance (Area %)	<LOD	<b>&lt;LOD</b>
Total Cannabonoid Content	Abundance (Area %)	N/A	<b>99.900%</b>
<b>Pass?</b>	<b>Results are within specification:</b>		<b>PASS</b>

<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.

