
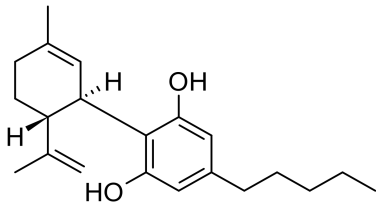


## Product Data Sheet - Cannabidiol (CBD) Isolate

<b>Product Name</b>	Cannabidiol (CBD) Isolate
Product Number	15692
Product URL	<a href="https://rhizosciences.com/product/cbd-isolate-1kg/">https://rhizosciences.com/product/cbd-isolate-1kg/</a>
Product Label	Chemical Structure
	
Chemical Formula	C <sub>21</sub> H <sub>30</sub> O <sub>2</sub>
Molecular Weight	314.46
CAS Number	13956-29-1
Appearance (Color)	White to Light Yellow
Appearance (Form)	Fine crystalline powder
Solubility (Color) - 10mg/ml MeOH	Colorless to Light Yellow
Solubility (Turbidity) - 10mg/ml MeOH	Clear
Storage Temperature	2-8 °C
Origin	Industrial Hemp <i>C. Sativa</i>
Control Status	Non-Psychoactive - Not Controlled
<sup>1</sup> H NMR Spectrum	Conforms to Structure
<sup>13</sup> C NMR Spectrum	Conforms to Structure
Purity - HPLC	≥98%
Recommended retest period	3 years

### Analytic Specifications

Cannabinoid Content	HPLC	Heavy Metals	ICP-MS
Cannabidiol	≥98%	Arsenic	<1000 ppb
Δ-9-tetrahydrocannabinol	0%	Cadmium	<410 ppb
		Mercury	<200 ppb
		Lead	<1000 ppb
Microbiology	(qPCR/Culture)	Pesticides	GC-MS
Total Aerobic Count	<10,000 CFU/g	Abamectin	<50 ppb
Total Coliforms	<100 CFU/g	Aldicarb	<20 ppb
Total Yeast and Molds	<1,000 CGU/g	Bifenazate	<20 ppb
E. coli	None Detected	Cyfluthrin	<10 ppb
Salmonella	None Detected	Daminozide	<50 ppb
Residual Solvents	GC-MS	Diazinon	<10 ppb
Propane	<1000 ppm	Dichlorvos	<150 ppb
Butanes	<1000 ppm	Dimethoate	<10 ppb
Pentane	<1000 ppm	Etoazole	<10 ppb
Ethanol	<1000 ppm	Flonicamid	<30 ppb
Acetone	<1000 ppm	Fludioxonil	<10 ppb
Isopropyl Alcohol Hexane	<1000 ppm	Imidacloprid	<20 ppb
Benzene	<1000 ppm	Myclobutanil	<50 ppb
Heptanes	<1000 ppm	Paclbutrazol	<10 ppb
Toluene	<1000 ppm	Piperonyl Butoxide	<1,000 ppb
Xylenes	<1000 ppm	Pyrethrin 1	<50 ppb
		Spinosyn A	<10 ppb
		Spinosyn D	<10 ppb
		Spirotetramat	<20 ppb
		Thiamethoxam	<20 ppb
		Trifloxystrobin	<10 ppb

The information in this Product Data Sheet is presented in good faith based on in house and third party testing following current scientific knowledge and USDA quality requirements for industrial hemp. You should perform your own testing and analysis prior to use to ensure the product is suitable for your intended use.. For additional information please visit [Rhizosciences.com](https://rhizosciences.com).



CANNABINOID PROFILE & POTENCY

**CERTIFICATE OF ANALYSIS**  
**CBD ISOLATE HEMP EXTRACT.**

**Order ID:** HX-16559  
**Batch ID:** HX-ISO-20244  
**Matrix:** CBD Isolate  
**Date Received:** 09/01/2020

**Client Name:** Rhizo Sciences  
**Address:** 4051 Freeport Parkway  
Grapevine, TX, 76051  
**Attn:** Dallas McMillan

*This test method was performed in accordance with the requirements of ISO/IEC 17025. The sample was provided to the laboratory by the client and tested as received. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.*

CN: Cannabinoid Profile & Potency

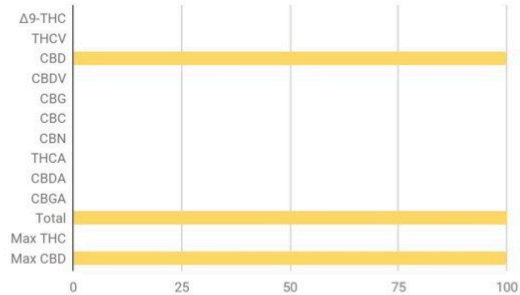
Analyst: R. M.

Test Date: September 1st, 2020

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 %	Concentration (mg/g)
Δ9-THC	ND	ND
THCV	ND	ND
CBD	99.81 %	998.10 mg/g
CBDV	0.14 %	1.35 mg/g
CBG	ND	ND
CBC	ND	ND
CBN	ND	ND
THCA	ND	ND
CBDA	ND	ND
CBGA	ND	ND
Total Cannabinoids	99.95 %	999.45 mg/g
Max THC	ND	ND
Max CBD	99.81 %	998.10 mg/g

Cannabinoid Potency



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 x THCA) + THC. ND = None detected above the limits of detection (LLD)

Authorization: Dr. Ryan J. McKinnie, Chief Scientific Officer	Signature:	Date: 09/01/20
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- **99+% Pure CBD** (Cannabidiol) Isolate, derived from USDA compliant industrial hemp, and isolated and packaged in a GMP certified facility.
  - It is made from **NON-GMO, PESTICIDE FREE, CO2 Extracted Industrial Hemp Oil**.
  - This product comes in the **Crystalline (Powdered)** form making it extremely easy to work with as an ingredient.
- The powdered form is MUCH better to use if the product is going to be used as an ingredient. Ingredients: Anhydrous hemp oil, no other active ingredients