

## Certificate of Analysis

<b>Product Name/Code:</b>	PureForm CBD/AP-5478		
<b>CAS No.:</b>	13956-29-1	<b>Formula:</b>	C <sub>21</sub> H <sub>30</sub> O <sub>2</sub> FW: 314.46
<b>Mfg. Date:</b>	August 2019	<b>Retest Date:</b>	August 2023
<b>Lot No.:</b>	130355	<b>Recommended Storage Conditions:</b>	2° - 8° C, Away from light.

Test Item	Specification	Result
Appearance	White to Tan or Beige solid	Light Tan Solid
ID by IR	Matches Reference	Matches Reference
ID by HPLC	Matches Standard	Matches standard
HPLC Purity	≥ 99.5%	100.0%
Related Substances:		
- Regioisomer	≤ 0.3% area	ND
- Dimer	≤ 0.3% area	ND
- Olivetol	≤ 0.3% area	ND
- THC	≤ 0.1% w/w	ND
- Report Individual Impurities	≥ 0.10% area	ND
Chirality by HPLC	≥ 99.0%	100.0%
Assay	97.0-103.0% wt.	100.8% w/w
Residual Terpenes (Max.)	Orange Terpenes NMT 1000 ppm (GRAS**)	101 ppm
Residual Solvents (Max.)*	Ethanol NMT 1000 ppm	ND
Residual Solvents (Max.)	PET Ether NMT 15 ppm	<1 ppm
Residual Solvents (Max.)	Propylene Glycol NMT 2500 ppm (GRAS)	512 ppm
Residue on Ignition	Report result	0.1%
Water, Wt% by KF	≤ 1 %	< 1% (0.1%)
Metals:		
- Arsenic	≤ 5ppm	< 0.1 ppm
- Cadmium	≤ 5ppm	< 0.1 ppm
- Lead	≤ 5ppm	< 0.1 ppm
- Mercury	≤ 5ppm	< 1 ppm (0.4)
- Zinc	≤ 1300ppm	6 ppm
Total Aerobic Microbial Count	≤ 1000 CFU/g	< 500 CFU/g
Total Yeast and Molds	≤ 100 CFU/g	< 50 CFU/g
E. Coli	Absent	Absent

### Residual Solvents:

\*No Class 1 or Class 2 solvents were utilized during the manufacture, processing, or handling of PureForm CBD.

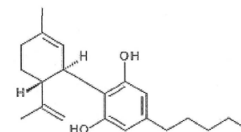
\*\*Generally Recognized as Safe (GRAS) is an FDA designation that a chemical or substance added to food is considered safe by experts.

### Non-Hemp, Non-Cannabis Derived Material:

PureForm CBD is derived from non-cannabis botanical sources. No cannabis-derived material was used in the production of this cannabidiol.

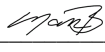
**NOTE:** Produced under the cGMP guidelines outlined in Section 117 of the Food Safety & Modernization Act (FSMA)

**Conclusion:** Batch released. We hereby certify that the above information is authentic and accurate.



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Signed by:  Date: 8/9/2022

DocuSigned by:  
 0E3B8D146E07485...  
 Marc Bencivenga, CSO

### Revision History

Revision	Comments
0	Original COA.
1	Shelf life extended per available stability data.
2	Shelf life extended per available stability data.
3	Shelf life extended per available stability data.
4	Shelf life extended per available stability data.
5	Shelf life extended per available stability data.