

# Endoca Certificate of Analysis: Organic Hemp CO<sub>2</sub> Extract

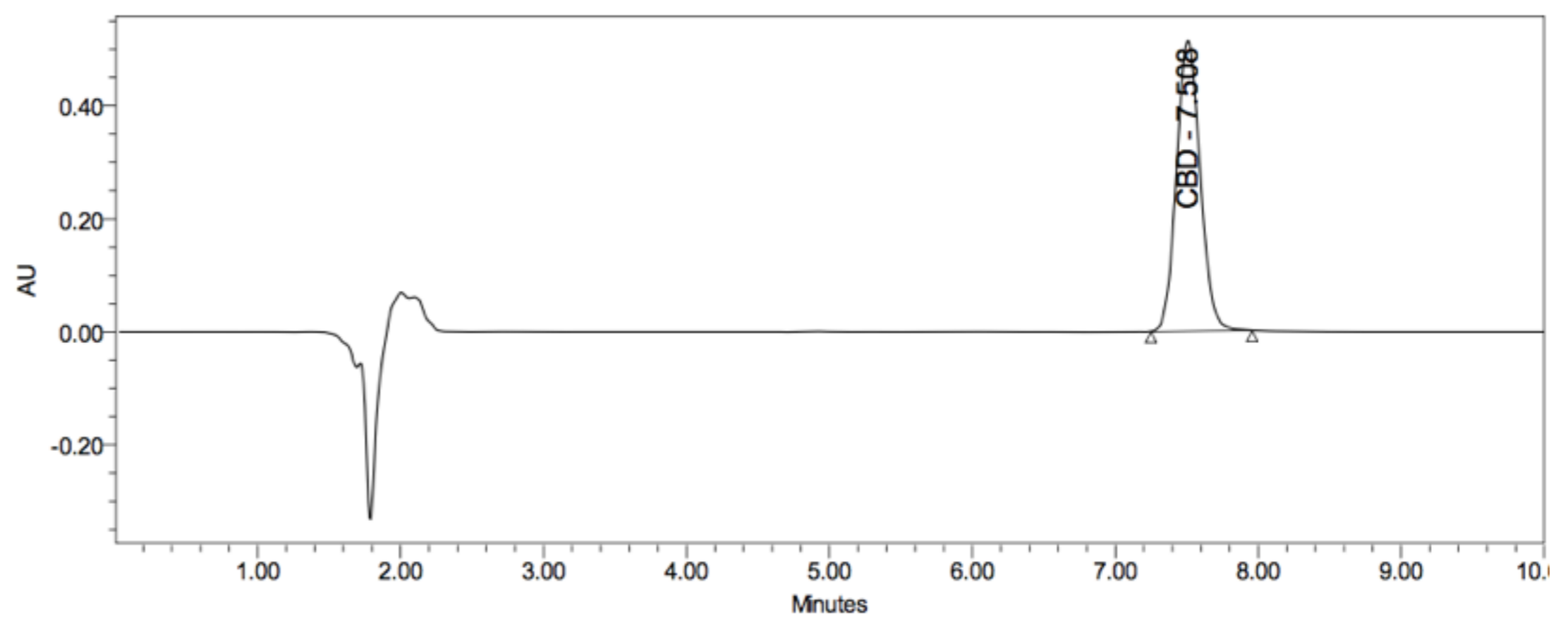
Endoca USA  
2305 Historic Decatur Rd San Diego USA  
Phone: +1-619-831-0156  
infousa@endoca.com  
www.endoca.com  
ISO 22000 certified  
HACCP certified; GMP certified

Responsible Supervisor: Martin V.  
Sample: Batch# 991  
Date samples received: 02-February 2018  
Date analysis began: 02-February 2018  
Date sample report produced: 02-February 2018  
ID Number when available: \_\_\_\_\_  
Sample Mass: 1 g

## Total CBD+CBDA 98.83% Cannabinoid Profile:

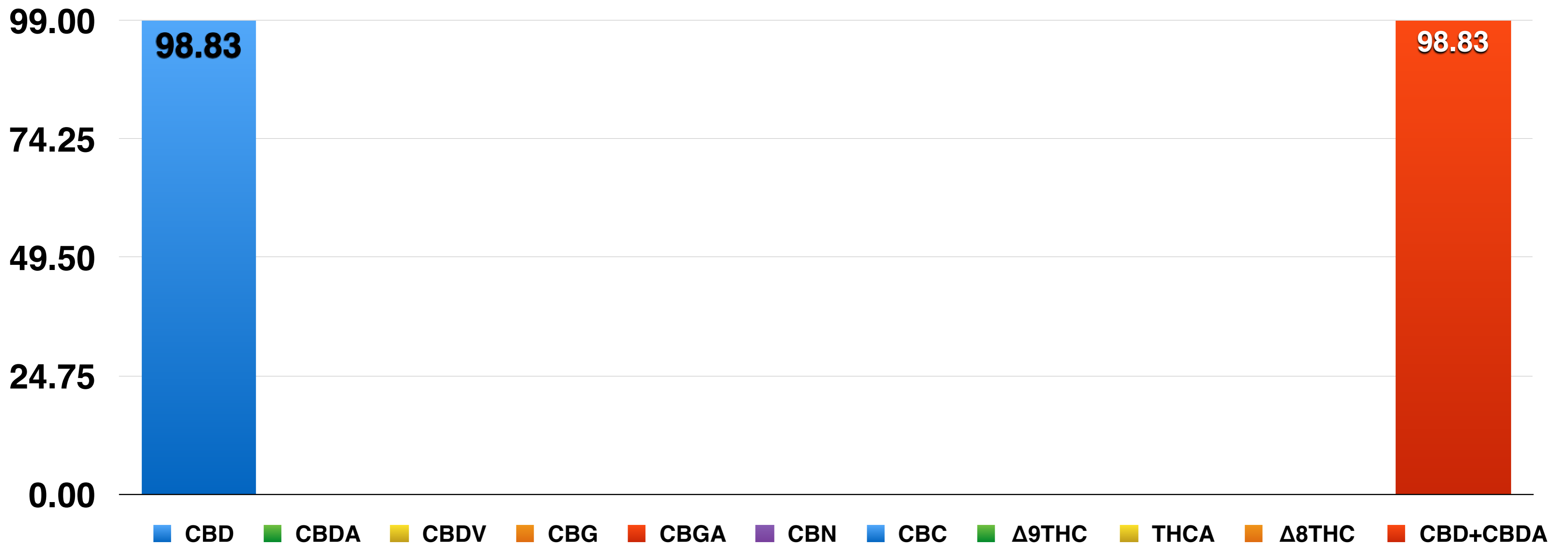
Component	Mass (%)	Amount (mg/g)
CBD	98.83	988.30
CBDA	ND	ND
CBDV	ND	ND
CBG	ND	ND
CBGA	ND	ND
CBN	ND	ND
CBC	ND	ND
Δ9THC	ND	ND
THCA	ND	ND
Δ8THC	ND	ND
CBD+CBDA	98.83	988.30

## HPLC Chromatogram



ND - Not Detected

## Cannabinoids as Percent of Total Mass



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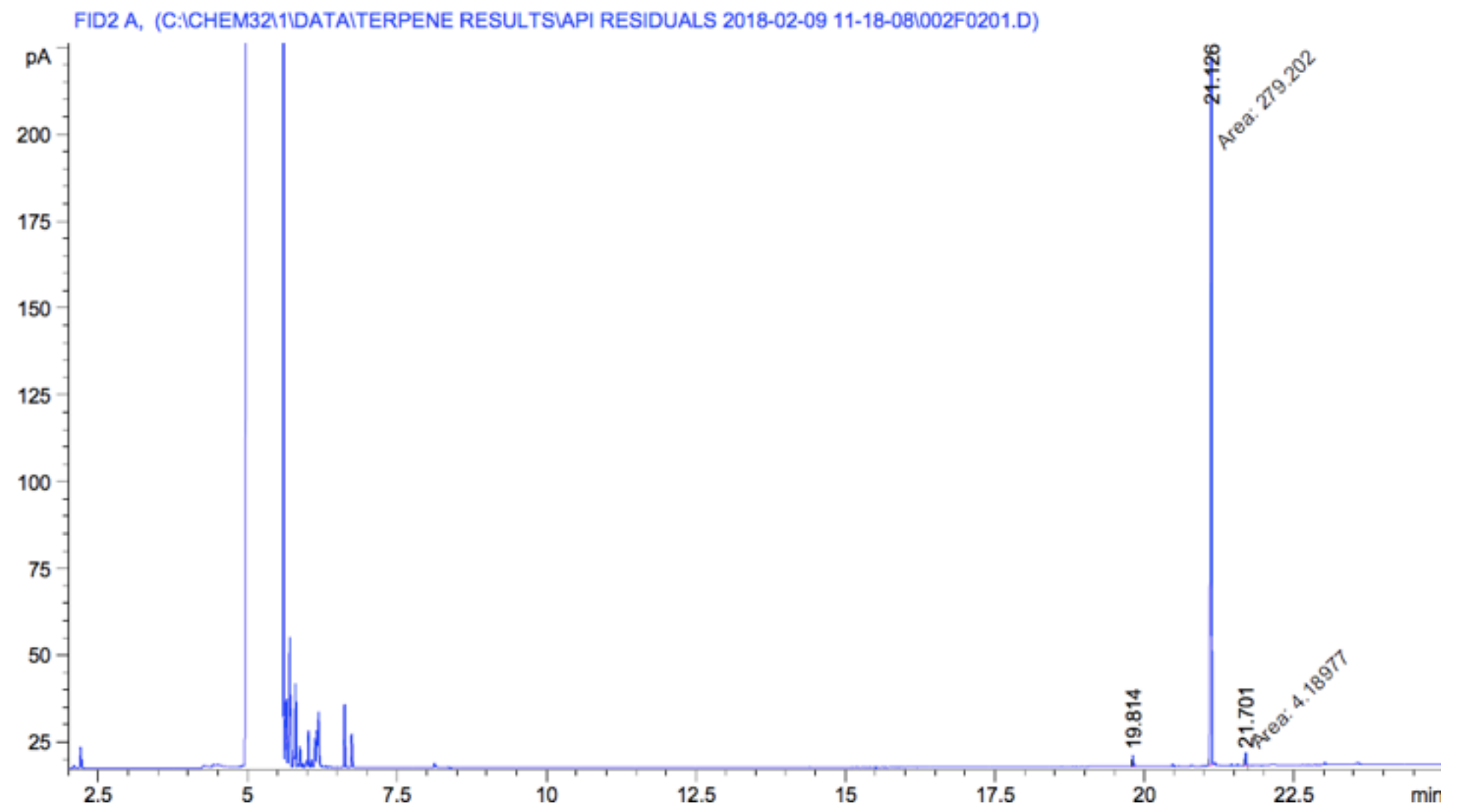
**Total CBD+CBDA 98.83%**

## Terpenoid Profile:

Component	Amount %
β-Caryophyllene	ND
α-Humulene	ND
Caryophyllene oxide	ND
Myrcene	ND
α-Pinene	ND
Terpinolene	ND
Humulene epoxide II	ND
Limonene	ND
β-Pinene	ND
E-β-Ocimene	ND
Sabinene	ND
Linalool	ND

ND - Not Detected

## GC-MS Chromatogram



## Terpenoid Distribution

- β-Caryophyllene
- α-Humulene
- Caryophyllene oxide
- Myrcene
- α-Pinene
- Terpinolene
- Humulene epoxide II
- Limonene
- β-Pinene
- E-β-Ocimene
- Sabinene
- Linalool

4

3

2

1

0



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## Microbial Profile:

Component	Results
<i>Listeria m.</i>	1 g ND*
<i>Escherichia c.</i>	1 g ND*
<i>Salmonella</i>	25 g ND*
Yeast	1 g ND*
Mould	1 g ND*

\*ND - Not detected

## All Mycotoxins at Non Detectable (ND) levels



## Nutrition Facts

Component	%
Moisture and volatile matter content	ND*
Protein content	ND*
Total fat content	ND*
Carbohydrates content	ND*
Total Fiber content	ND*
Total sugars content	ND*
Total ash content	ND*

\*ND - Not detected

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**Total CBD+CBDA 98.83%**  
**Heavy Metals Profile:**

Component	Mass (%)	Amount (ppm)	Limit** (ppm)
Arsenic (As <sub>2</sub> O <sub>3</sub> )	ND*	< 0.1	< 0.1
Cadmium (Cd)	ND*	< 0.1	< 0.1
Lead (Pb)	ND*	< 0.1	< 0.1
Mercury (Hg)	ND*	< 0.1	< 0.1
Chromium (Cr)	ND*	< 1	< 1
Tin (Sn)	ND*	< 10	< 10

\*ND - Not detected, \*\*Codex STAN 193-1995, GB 2762, EC No. 1881/2006, FDA

**All Heavy Metals at Non Detectable (ND) levels**



## Conclusions:

**No heavy metal residues detected.**

**No flammable residues detected.**

**No chemical residues detected.**