



**Łukasiewicz**

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Puławy, 22.06.2022

## ANALYSIS REPORT No 181/2022/1

1.	Name of sample: (information provided by the client)	Ground hemp FUTURA, batch No: 2205
2.	Client's name and address:	A-Sense Sp. z o.o. Ignacego Mościckiego 1 24-110 Puławy
3.	Sampling	Sampling date: 20.06.2022 Sampling by: Mateusz Błazejewski Protocol No. 8/2022
4.	Sample delivery date:	20.06.2022
	Analysis beginning date:	20.06.2022
	Analysis termination date:	22.06.2022
5.	Sample description and identification:	Ground hemp sample. The sample was delivered for analysis in the plastic bag. The sample has been given an identification number 181/2022/1.
6.	Sample marking / additional information (information provided by the client)	
7.	The usefulness of the test sample:	satisfactory
8.	Analysis methods:	

No.	Analyzed property	Analysis method	Procedure
1.	Moisture content	weight method	PB-R 73 Edition II, 18.01.2021
2.	Total oil content	ASE extraction method	PB-R 21 Edition II, 21.10.2021
3.	Cannabinoids content: CBDA (cannabidiolic acid), CBD (cannabidiol), Δ-9-THC (delta-9-tetrahydrocannabinol), THCA (delta-9-tetrahydrocannabinolic acid),	High Performance Liquid Chromatography with detection on a photodiode array detector (HPLC with DAD)	PB-R 51 Edition IV, 26.11.2021

9.	Analysis range in accordance:	with order No. USK.O.32.K2205
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10. Analysis results:

No.	Identification number		181/2022/1
	Sample marking by the Client		Ground hemp FUTURA, batch No: 2205
	Analyzed property	[unit]	Analysis results $y \pm U^{1)}$
1.	Content of moisture	% w/w	10,17
2.	Content of total oil	% w/w	6,05
3.	Cannabinoids content:		
	Content of CBDA (cannabidiolic acid),	% w/w	2,767±0,187
	Content of CBD (cannabidiol),	% w/w	0,317±0,019
	Content of $\Delta$ -9-THC (delta-9-tetrahydrocannabinol)	% w/w	0,020±0,003
	THCA (delta-9-tetrahydrocannabinolic acid)	% w/w	0,076±0,007
	Total THC	% w/w	0,087±0,016
	Total THC per dry matter	% w/w / dry matter	0,096

$$\Sigma\text{THC} = \text{THC} + (0,8772 \times \text{THCA})$$

L.O.Q. = 0,008 % w/w (limit of quantification)

L.O.D. = 0,006 % w/w (limit of detection)

<sup>1)</sup> - the given extended uncertainty (U) is based on standard uncertainty multiplied by extension factor  $k=2$  providing confidence level of 95%. Sampling uncertainty was not taken into account in calculations.

11. We declare:

- that the above results refer only to the analysed sample of identification number 181/2022/1
- that the „Analysis report” cannot be copied without written consent of the Laboratory Head not otherwise as a whole
- that the laboratory is not responsible for the information provided by the customer

12. The orderer has 14 days to submit a claim.

13. Notes: No

Person authorizing the analyses

22.06.2022., Barbara Hazelek  
.....  
date and signature

END

The Laboratory Head  
Laboratorium Analityczne  
KIEROWNIK  
Sekcja Surowców  
i Produktów Roślinnych  
.....  
date and signature  
mgr M. Tusz Chmiel  
22-06-2022