

CERTIFICATE OF ANALYSIS No. 0519/24

Product name:	Clearleaf® KK T22
Strenght	THC 22% CBD ≤1%
INN	Δ ⁹ -tetrahydrocannabinol (THC)
Lot no.	2023-2306-113
Article number	FP-113
Manufacturer	SINCERITAS AD
Manufacturing date	28.03.2024
Expiry or retest date	08.2025
Container closure	10 g PET/PET met/PE-EVOH-PE
Batch size	9600g
Number of individual containers	960
Date of receipt in Quality control	16.05.2024
Analyzed according to:	SPCL-QA-000101

Parameters	Method	Specification	Results	Evaluation
Properties	German Monograph (DAB)	Complies with the characteristics of the cannabis variety	COMPLIES	COMPLIES
Identification	DAB Current edition	Complies with the characteristics of cannabis	COMPLIES	COMPLIES
A: Appearance		Brown green clustered flowers with the size of approximately 1 to 5 cm showing the Characteristics of Cannabis.		
B:	Microscopy DAB Current edition	Complies to monograph DAB Cannabis flower		
C:	German Monograph (DAB) Cannabis flos Ph.Eur. 2.2.27	Conforms	COMPLIES	COMPLIES
Foreign matter	German Monograph (DAB) Cannabis flos Ph.Eur. 2.8.2	≤ 2.0% w/w	COMPLIES	COMPLIES
Loss on drying	German Monograph (DAB) Cannabis flos Ph. Eur. 2.2.32	≤ 10,0%	7.78 %	COMPLIES
Assay				
Δ ⁹ -tetrahydrocannabinol	HPLC-UV DAB Current edition; Ph.Eur. Current edition	90-110% from labeled content of Δ ⁹ -THC ¹⁾	21.30 %	COMPLIES
Cannabidiol	2.2.29 MOA-QC-000030	CBD ²⁾ : NMT 1.0%	0.00 %	COMPLIES
Related substances		CBN NMT 1%	0.03 %	COMPLIES
Aflatoxins				
B1	Ph. Eur. 2.8.18 HPLC- FD	≤ 2 µg/kg	B1	ND ³⁾ µg/kg
B1+B2+G1+G2	MOA-QC-000035	≤ 4 µg/kg	B1+B2+G1+G2	ND µg/kg
Ochratoxin A		≤ 20 µg/kg		ND ⁴⁾ µg/kg

Parameters	Method	Specification	Results	Evaluation
Elemental impurities	ICP-MS			
Cadmium	Ph. Eur Current edition	≤ 0.3 ppm	Cadmium ND ⁵⁾ ppm	COMPLIES
Lead	2.4.27	≤ 0.5 ppm	Lead 0.012 ppm	
Mercury	Herbal Drug 1433	≤ 0.1 ppm	Mercury 0.010 ppm	
Arsenic	Current edition	≤ 0.2 ppm	Arsenic 0.476 ppm	
Pesticide residues ⁶⁾	LC-MS / GC-MS Ph. Eur. 2.8.13 MKC EN 15662 :2011	≤ LOQ ⁷⁾	≤ LOQ mg/kg	COMPLIES
Microbiological purity ⁶⁾				
TAMC		10 ⁴ CFU/g (max acceptable count: 50 000 CFU/g)	200 CFU/g	COMPLIES
TYMC	Ph. Eur. 5.1.8 Table B	10 ² CFU/g (max acceptable count: 500 CFU/g)	<10 CFU/g	
BTGNB		≤ 10 ² CFU/g	<10 CFU/g	
Escherichia coli		Absent / g	Absent/ g	
Salmonella		Absent / 25 g	Absent/ 25 g	
Staphylococcus Aureus	Ph. Eur. 5.1.4	Absent/g	Absent/ g	
Pseudomonas Aeruginosa		Absent/g	Absent/ g	

CONCLUSION:

The analyzed material/product:	Clearleaf® KK T22
packed in:	10 g PET/PET met/PE-EVOH-PE
with lot no.:	2023-2306-113
manufacturer/supplier:	SINCERITAS AD
COMPLIES	with the specifications for quality of the product described above.

Abbreviations

Δ ⁹ -THC	Δ ⁹ -tetrahydrocannabinol	MS/M. Tandem mass spectrometry
BTGNB	Bile-tolerant gram-negative bacteria	N/A Not applicable
CBD	Cannabidiol	NMT Not more than
CBDA	Cannabidiolic acid	NT Not tested
CBN	Cannabinol	Ph. Eu European Pharmacopoeia
GC	Gas chromatography	TAMC Total aerobic microbial count
DAB	Deutsches Arzneibuch	THCA Tetrahydrocannabinolic acid
FD	Fluorescent detector	TLC Thin-layer chromatography
HPLC	High-pressure liquid chromatography	TYMC Total yeast/ mold count
ICP	Inductively coupled plasma	UV Ultraviolet
LOQ	Limit of quantification	MS Mass spectrometry
LC	Liquid chromatography	NLT Not less than
LD	Limit of detection	ND Not detected

¹⁾ calculated on dried flower as sum of Δ⁹-THC and THCA;

²⁾ calculated on dry flower as sum of CBD and CBDA

³⁾ LD = 0.0008 µg/kg

⁴⁾ LD = 0.377 µg/kg

⁵⁾ LD = 0.00026 ppm

⁶⁾ Parameter will be analyzed in contracting laboratory

⁷⁾ LOQ = 0.01 mg/kg.

Signature	Elena Pop - Icovska	Signature	Manuela Trpevska
Date of issuing certificate of analysis			27.05.2024