

CERTIFICATE OF ANALYSIS No. 0214/24

Product name:	Clearleaf® KHM T22
Strength	THC 22% CBD ≤ 1%
INN	Δ ⁹ -tetrahydrocannabinol (THC)
Lot no.	2023-4201-106
Article number	FP-106
Manufacturer	SINCERITAS AD
Manufacturing date	02.12.2023
Packaging date:	20.02.2024
Expiry or retest date	05.2025
Container closure	10 g PET/PET met/PE-EVOH-PE
Batch size	2190g
Number of individual containers	219
Date of receipt in Quality control	20.02.2023
Analyzed according to:	SPCL-QA-000080

Parameters	Method	Specification	Results	Evaluation
Properties	DAB Current edition MOA-QC-000028	Complies with the characteristics of the cannabis variety	COMPLIES	COMPLIES
Identification	DAB Current edition MOA-QC-000028	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:	HPLC-UV Ph.Eur. Current edition 2.2.29 DAB Current edition MOA-QC-000030	Comparable with reference	COMPLIES	COMPLIES
Foreign matter	DAB Current edition; Ph.Eur. Current edition 2.8.2 MOA-QC-000022	NMT 2.0% w/w	COMPLIES	COMPLIES
Loss on drying	DAB Current edition; Ph. Eur Current edition 2.2.32 MOA-QC-000011	NMT 10%	7.14 %	COMPLIES
Assay				
Δ ⁹ -tetrahydrocannabinol	HPLC-UV DAB Current edition; Ph.Eur. Current edition	90-110% from the labeled content of Δ ⁹ -THC ¹⁾	21.12 %	COMPLIES
Cannabidiol	2.2.29 MOA-QC-000030	CBD: NMT 1% ²⁾	0.18 %	COMPLIES
Related substances		CBN NMT 1%	0.01 %	COMPLIES

Parameters	Method	Specification	Results	Evaluation
Aflatoxins				
B1	Ph. Eur. 2.8.18 HPLC- FD	≤ 2 µg/kg	B1 ND ³⁾ µg/kg	COMPLIES
B1+B2+G1+G2	MOA-QC-000035	≤ 4 µg/kg	B1+B2+G1+G2 0.21 µg/kg	
Ochratoxin A		≤ 20 µg/kg	ND ⁴⁾ µg/kg	
Elemental impurities⁵⁾				
ICP-MS Ph. Eur Current edition				
Cadmium	2.4.27	≤ 0.3 ppm	Cadmium ND ppm	COMPLIES
Lead	Herbal Drug 1433	≤ 0.5 ppm	Lead 0.164 ppm	
Mercury	Current edition	≤ 0.1 ppm	Mercury 0.001 ppm	
Arsenic	MOA-QC-000029	≤ 0.2 ppm	Arsenic 0.093 ppm	
LC-MS / GC-MS Ph. Eur. 2.8.13 MKC EN 15662 :2011				
Pesticide residues⁵⁾				
≤ LOQ ⁶⁾ <LOQ mg/kg COMPLIES				
Microbiological purity⁵⁾				
TAMC		10 ⁴ (max. Acc. Count: 50,000 CFU/g)	<10 CFU/g	COMPLIES
TYMC	Ph. Eur. 5.1.8	10 ² (max. Acc. Count: 500 CFU/g)	<10 CFU/g	
BTGNB	Table B	≤ 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 ® KHM T22
packed in: 10 g PET/PET met/PE-EVOH-PE
with lot no.: 2023-4201-106
manufacturer/supplier: SINCERITAS AD
COMPLIES with the specifications for quality of the product described above.

Abbreviations

Δ ⁹ -THC	Δ ⁹ -tetrahydrocannabinol	MS/MS	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. Eur.	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⁾ Parameter will be analyzed in contracting laboratory

⁶⁾ LOQ = 0.01 mg/kg.

Signature	Elena Pop - Icovska	Signature	Manuela Trpevska
Date of issuing certificate of analysis	16.05.2024		