

CERTIFICATE OF ANALYSIS No. 0538/24

Product name:	Clearleaf® SBP T21
Strenght	THC 21% CBD ≤ 1%
INN	Δ^9 -tetrahydrocannabinol (THC)
Lot no.	2023-2108-110
Article number	FP-110
Manufacturer	SINCERITAS AD
Manufacturing date	26.02.2024
Expiry or retest date	07.2025
Container closure	10 g PET/PET met/PE-EVOH-PE
Batch size	5000g
Number of individual containers	500
Date of receipt in Quality control	22.05.2024
Analyzed according to:	SPCL-QA-000093

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%	7.92 %	COMPLIES
Assay				
Δ^9 -tetrahydrocannabinol	HPLC-UV DAB Current edition; Ph.Eur. Current edition 2.2.29 MOA-QC-000030	90-110% from labeled content of Δ^9 -THC ¹⁾	19.66 %	COMPLIES
Cannabidiol		CBD ²⁾ : NMT 1.0%	0.00 %	COMPLIES
Related substances		CBN NMT 1%	0.02 %	COMPLIES

Parameters	Method	Specification	Results	Evaluation
Aflatoxins	Ph. Eur. 2.8.18			
B1	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 ND µg/kg	
Ochratoxin A		≤ 20 µg/kg	ND ⁴⁾ µg/kg	
Elemental impurities	ICP-MS			
	Ph. Eur Current edition			
Cadmium	2.4.27	≤ 0.3 ppm	Cadmium ND ⁵⁾ ppm	COMPLIES
Lead	Herbal Drug 1433	≤ 0.5 ppm	Lead 0.014 ppm	
Mercury	Current edition	≤ 0.1 ppm	Mercury ND ⁶⁾ ppm	
Arsenic	MOA-QC-000029	≤ 0.2 ppm	Arsenic 0.187 ppm	
Pesticide residues⁷⁾	LC-MS / GC-MS	≤ LOQ ⁸⁾	≤ LOQ mg/kg	COMPLIES
	Ph. Eur. 2.8.13			
	MKC EN 15662 :2011			
Microbiological purity⁷⁾				
TAMC		10 ⁴ (max. Acc. Count: 50000 CFU/g)	20 CFU/g	COMPLIES
TYMC	Ph. Eur. 5.1.8	10 ² (max. Acc. Count: 500	<10 CFU/g	
BTGNB	Table B	10 ² CFU/g	>10 and <100 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® SBP T21
 packed in: 10 g PET/PET met/PE-EVOH-PE
 with lot no.: 2023-2108-110
 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;

⁵⁾ LD = 0.00030 ppm

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

⁶⁾ LD = 0.00054 ppm

³⁾ LD = 0.0008 µg/kg

⁷⁾ Parameter will be analyzed in contracting laboratory

⁴⁾ LD = 0.377 µg/kg

⁸⁾ LOQ = 0.01 mg/kg.

Signature	Elena Pop - Icovska	Signature	Manuela Trpevska
Date of issuing certificate of analysis	01.07.2024		