

CERTIFICATE OF ANALYSIS No. 1064/23

Product name:	Clearleaf® GOZ T21
INN:	Pharmaceutical active substance – Cannabis flowering tops <i>Cannabis Sativa</i> L. Dried Whole Cannabis flowers, cultivar Gorilla Zkittlez
Product group:	THC: 21% CBD: NMT 1%
Lot no.:	2022110107040
Article number:	FP-040
Manufacturer:	SINCERITAS AD
Manufacturing date:	24.10.2022
Packaging date:	16.02.2023
Expiry or retest date:	24.03.2024
Container closure:	PET/PET met/PE-EVOH-PE / Carton box
Batch size:	5000 g
Number of individual containers:	500 pcs
Date of receipt in Quality Control:	18.07.2023
Analyzed according to:	SPCL-QA-000009

Parameters	Method	Specification	Results	Evaluation
Properties DAB Current edition	MOA-QC-000028	Brown-green clustered flowers with the aroma of mild tones of tropical end ripe fruit	Complies	Complies
Identification:				
A: Appearance DAB Current edition	MOA-QC-000028	Complies with the characteristics of cannabis Brown-green clustered flowers with the size of approximately 1-5 cm showing the characteristics of Cannabis	Complies	Complies
B: Microscopy DAB Current edition	MOA-QC-000016	Complies to German monograph DAB	Complies	Complies
C: TLC Ph.Eur. Current edition 2.2.27	MOA-QC-000017	Δ9-THC: violet zone at the bottom is detectable CBD: violet zone at the top is not detectable	Complies	Complies
Foreign matter DAB Ph.Eur. Current edition 2.8.2	MOA-QC-000022	NMT 2.0% w/w	No presence of insects, worms, and foreign matter	Complies
Loss on drying DAB Ph.Eur. Current edition 2.8.2 Gravimetric analysis	MOA-QC-000024	NMT 10%	5.38%	Complies
Impurity Cannabinol (CBN) HPLC; Ph.Eur. Current edition.2.2.29 DAB Current edition	MOA-QC-000030	NMT 1.0%	0.031%	Complies

Parameters	Method	Specification	Results	Evaluation
Assay				
HPLC				
Ph.Eur. Current edition 2.2.29				
DAB Current edition				
Δ9-Tetrahydrocannabinol (THC) ¹	MOA-QC-000030	90-110% from the labeled content of Δ9-THC	22.83%	Complies
Cannabidiol (CBD) ²		NMT 1% CBD	0.35%	Complies
Pesticides³				
LC-MS/MS ; GC-MS/MS	MKS EN 15662:2011	≤ LOQ ⁴	< LOQ	Complies
Ph. Eur. Current edition 2.8.13				
Heavy metals³				
ICP-MS				
Ph. Eur. Current edition 2.4.27				
Monograph 1433 Herbal drugs				
Cd		NMT 1.0 ppm	0.155 ppm	Complies
Pb	MOA-QC-000029	NMT 5.0 ppm	0.019 ppm	Complies
Hg		NMT 0.1 ppm	0.003 ppm	Complies
Aflatoxins: HPLC-FD				
Ph. Eur. Current edition 2.8.18,				
Ph. Eur. Current edition 2.8.22				
Aflatoxin B1		NMT 2 µg/kg	0.020 µg/kg	Complies
Sum of aflatoxin B1, B2, G1, G2	MOA-QC-000020	NMT 4 µg/kg	2.747 µg/kg	Complies
Ochratoxin A		NMT 20 µg/kg	0.089 µg/kg	Complies
Microbial contamination :				
Ph.Eur. Current edition 5.1.8 table B				
TAMC		10 ⁴ CFU/g		
Ph.Eur.2.6.12		(Maximum acceptable count:50000 CFU/g)	<10 ³ cfu/g	
TYMC		10 ² CFU/g		
Ph.Eur.2.6.12		(maximum acceptable count: 500 CFU/g)	<10 ² cfu/g	
BTGNB	MOA-QC-000004	10 ² CFU/g	<10 CFU/g	Complies
Ph.Eur.2.6.31				
Salmonela		Absent/ 25g	Absent/25g	
Ph.Eur.2.6.31				
E.Coli		Absent/g	Absent/g	
Ph.Eur.2.6.31				
Irradiation	N/A	N/A	N/A	N/A

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

² calculated on dried flower as sum of CBD and CBDA

³ analyzed in contract laboratory

⁴ LOQ = 0.01 mg/kg

The results of parameters tested in contract laboratories are taken from their report and will be clearly marked, and the client will be informed.

CONCLUSION:

The analyzed material/product **Clearleaf® GOZ T21**, packed in PET/PET met/PE-EVOH-PE, 10 g pouches with zip lock with lot no.: 2022110107040, manufacturer/supplier SINCERITAS AD **COMPLIES** with the specifications for quality of the product described above.

Abbreviations:

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

Qualified Person

Date of issuing of the Certificate of Analysis:

24.07.2023

