

Product: *Cannabis sativa* L. Flowers (Curaleaf Natural 18/1 PT LVC)

Analysis No.: PFC-1265/24

Certificate Version: 00

Lot No.: ARV/02/24-100

Manufacture Date: November 2024

Storage: Below 25 °C

Analysis Date: November-December 2024

Supplier: Terra Verde

Expiry date: May 2025
(Stability studies under progress)

Irradiated: No

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Certificate of Analysis

Parameter	Method	Specification	Results
Identity A (Appearance)	Ph. Eur. Cannabis flos (Method A)	In agreement with the reference description	Complies ⁽¹⁾
Identity B (Microscopy)	Ph. Eur. Cannabis flos (Method B) Ph. Eur. 2.8.23	In agreement with the reference description	Complies ⁽¹⁾
Identity C (HPTLC)	Ph. Eur. Cannabis flos (Method C) Ph. Eur. 2.8.25	In agreement with the reference TLC	Complies ⁽¹⁾
Foreign matter	Ph. Eur. Cannabis flos Ph. Eur. 2.8.2	≤ 2 % w/w Does not contain any seeds. Does not contain any leaves >1 cm	< 0.1 % ⁽¹⁾
Loss on Drying	Ph. Eur. Cannabis flos Ph. Eur. 2.2.32	≤ 12 %	7.6 % ⁽¹⁾
Absence of pesticides	Ph. Eur. 2.8.13	Complies with <i>Ph. Eur.</i> 2.8.13 list	Complies ⁽¹⁾
Aflatoxins	PA/FLOS/11 ⁽²⁾ Ph. Eur. 2.8.18	Aflatoxin B ₁ ≤ 2 ppb	< 1 ppb ⁽¹⁾
		Sum of aflatoxins B ₁ , B ₂ , G ₁ and G ₂ ≤ 4 ppb	< 4 ppb ⁽¹⁾
Heavy metals	PA/FLOS/08 ⁽²⁾ Ph. Eur. 2.4.27	Cadmium ≤ 0.3 ppm	< 0.03 ppm ⁽¹⁾
		Lead ≤ 0.5 ppm	< 0.03 ppm ⁽¹⁾
		Mercury ≤ 0.1 ppm	< 0.03 ppm ⁽¹⁾
		Arsenic ≤ 0.2 ppm	< 0.03 ppm ⁽¹⁾
Assay (THC equivalent⁽³⁾ on the dried basis)	PA/FLOS/06 ⁽²⁾ Ph. Eur. Cannabis flos Ph. Eur. 2.2.29	90.0-110.0 % of the labelled content (16.2 – 19.8 % THC)	93.0 % ⁽¹⁾ (16.7 % THC) ⁽¹⁾
Assay (CBD equivalent⁽³⁾ on the dried basis)		< 1.0 %	0.05 % ⁽¹⁾
Cannabinoid profile (THCA, THC, CBDA and CBD)		Informative	THCA: 18.42 % ⁽¹⁾ THC: 0.59 % ⁽¹⁾ CBDA: 0.05 % ⁽¹⁾ CBD: < 0.05 % ⁽¹⁾
Related substances		CBN ≤ 1.0 % (on the dried basis)	< 0.05 % ⁽¹⁾

¹ Data from the analytical tests on the starting materials MP-24-0349 and MP-24-0240.

² In-house validated methods.

³ THC equivalent = THC+THCA×0.877, CBD equivalent = CBD+CBDA×0.877.

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Microbiological purity (Ph. Eur. 5.1.8 Tab. C)

Parameter	Method	Specification	Results
Total Aerobic Microbial Count (TAMC)	Ph. Eur. 2.6.12	$\leq 10^5$ CFU/g (Max. acc. count: 500 000 CFU/g)	4.4×10^3 CFU/g
Total Yeast and Mould Count (TYMC)		$\leq 10^4$ CFU/g (Max. acc. count: 50 000 CFU/g)	7.5×10^1 CFU/g
Bile Tolerant Gram Negative Bacteria	Ph. Eur. 2.6.31	$\leq 10^4$ CFU/g	$< 10^1$ CFU/g
<i>E. coli</i>		Absence in 1 g	Absence in 1 g
<i>Salmonella</i> spp.		Absence in 25 g	Absence in 25 g

The product has been cultivated in Portugal, following GACP requirements. Additional manufacturing steps and testing conducted under responsibility of Medalchemistry in Spain have been conducted following GMP guidelines. The product complies with Ph. Eur. monograph "Cannabis flos".

Prepared by: 03-12-2024 	Revised by:  04/12/2024	Released by:
Verónica Selva Quality Assurance	Ana Amorós Quality Assurance	Qualified person