

F074
CoA – Certificado de Análise de
Produto (Certificate of Analysis)

Revisão 4.0



Certificate #: CoA0119

Revision: 1.0

Product Name	Medical Cannabis Dry Flower (retail) – AlephRed27_10g
Product Number	HBM0-F221-9128
Market/ MA #	Germany
Cultivar/Commercial Name	Hokusai
Batch Number	HB84180404
Manufacturer Name and Address	Sociedade Agrícola Monte das Barrocas, Lda Herdade das Barrocas IP2, Km 222, São Lourenço de Mamporcão 7100-850 ESTREMOZ PORTUGAL
Manufacturing Date	February/2025
Expiry Date / Re-test	August/2025 (6 months)

Identity Test			
Test	Method	Specification	Result
Identification Test A (Visual Examination)	Monograph of Ph.Eur. "Cannabis flower" (Visual)	According to the requirements of the monograph	Complies
Identification Test B (Microscopic)	Monograph of Ph.Eur. "Cannabis flower" (Microscopy)	According to the requirements of the monograph	Complies
Identification Test C (HPTLC)	Monograph of Ph.Eur. "Cannabis flower" Ph. Eur. 11.5 (2.8.25)	According to the requirements of the monograph	Complies

Purity Test-Assay			
Test	Method	Specification	Result
Foreign Matter	Ph.Eur. (2.8.2)	≤2% if the herbal drug is to be prescribed to patients as a medicinal product, it does not contain any seeds and the whole herbal drug does not contain any leaves more than 1.0 cm in length.	Complies
Loss on Drying	Ph. Eur. (2.8.2)	≤12.0%	7.2%
Related Substances (Total CBN)	Internal Method (HB_QT_HPLC_EP_FL_2) Ph.Eur. (2.2.29)	≤1.0%	0.23%
THCA		± 10% of declared content	26.9%
THC			0.8%
Total content of THCA+THC			27.8%

F074
CoA – Certificado de Análise de
Produto (Certificate of Analysis)

Revisão 4.0



Purity Test-Assay				
Test	Method	Specification	Result	
CBD	Internal Method (HB_QT_HPLC_EP_FL_2) Ph.Eur. (2.2.29)	± 10% of declared content	<0.2% (LOQ)	
CBDA			<0.2% (LOQ)	
Total content of CBD and CBDA			<0.2% (LOQ)	
Terpenes	HS-GC-MS (Met_CQ_009/20 Rev.10)	Informative	Alpha-pinene	0.4136 mg/g
			Camphene	0.1247 mg/g
			Beta-pinene	0.879 mg/g
			Myrcene	3.7395 mg/g
			3 - carene	ND
			Alpha- terpinene	0.0031 mg/g
			Cymene	ND
			D.L-limonene	4.2361 mg/g
			Gamma- terpinene	0.0049 mg/g
			Terpinolene	0.0481 mg/g
			L-Fenchone	0.0443 mg/g
			Linalool	0.9117 mg/g
			Fenchol	0.4436 mg/g
			Camphor	0.0018 mg/g
			Iso-borneol	0.0035 mg/g
			Borneol	0.1263 mg/g
			D.L-Menthol	0.0003 mg/g
			Alpha- terpineol	0.4472 mg/g
			B-citronellol	0.0229 mg/g
			R-pulegone	0.004 mg/g
			Geraniol	0.0185 mg/g
			Geranyl acetate	ND
			Alpha- cedrene	ND
			Beta- caryophellene	5.8227 mg/g
			Alpha- humulene	1.9976 mg/g
			Nerolidol	0.2964 mg/g
			Cedrol	ND

F074
CoA – Certificado de Análise de
Produto (Certificate of Analysis)

Revisão 4.0



Purity Test-Assay				
Test	Method	Specification	Result	
Terpenes	HS-GC-MS (Met_CQ_009/20 Rev.10)	Informative	Beta-eudesmol	ND
			Alpha-bisabolol	0.5526 mg/g
			Phytol	0.2825 mg/g
Pesticides	Ph. Eur. (2.8.13)	Complies with requirements of monograph	Complies	
Heavy Metals	Met_CQ_009/20 Rev.10 Ph. Eur. (2.4.27)	Cadmium ≤ 1.0 ppm or ≤ 0.3 ppm if the herbal drug is to be prescribed to patients as a medicinal product	< 0.005 ppm (LOQ)	
		Lead ≤ 5.0 ppm or ≤ 0.5 ppm if the herbal drug is to be prescribed to patients as a medicinal product	< 0.020 ppm (LOQ)	
		Mercury ≤ 0.1 ppm	< 0.050 ppm (LOQ)	
		Arsenic Informative or ≤ 0.2 if the herbal drug is to be prescribed to patients as a medicinal product	< 0.020 ppm (LOQ)	
		Nickel Informative	< 2.000 ppm (LOQ)	
		Zinc Informative	35.889 ppm	
Mycotoxins	Met_CQ_009/20 Rev.10 Ph. Eur. (2.8.18)	Aflatoxin B1 ≤ 2 µg/kg	< 0.25 µg/Kg (LOD)	
		Sum (B1, B2, G1, G2) ≤ 4 µg/kg	< 0.25 µg/Kg (LOD)	
	Met_CQ_009/20 Rev.10 Ph. Eur. (2.8.22)	Ochratoxin A ≤ 20 µg/kg	< 2 µg/Kg (LOD)	

Microbiology Test-Assay			
Test	Method	Specification (Ph. Eur. 5.1.8.C)	Result
Total Aerobic Microbial Count (TAMC)	Internal Method Ph. Eur. 2.6.12 Ph. Eur. 2.6.13 Ph. Eur. 2.6.31	$\leq 10^5$ CFU/g Maximum acceptable count: 500 000 CFU/g	1×10^2 CFU/g (100 CFU/g)
Total combined Yeasts and Molds Count (TYMC)		$\leq 10^4$ CFU/g Maximum acceptable count: 50 000 CFU/g	$< 1 \times 10^2$ CFU/g (< 100 CFU/g)
Bile-tolerant gram negative bacteria		$\leq 10^4$ CFU/g	$< 10^1$ CFU/g
<i>E.coli</i>		Absence (g)	Absent (g)
<i>Salmonella</i>		Absence (25 g)	Absent (25 g)

Method: HPLC-DAD. LOQ=Limit of Quantification; ND=Not Detectable; NA=Not Applicable. When reporting totals and individuals, acidic cannabinoids are multiplied by 0.877 to account for loss of mass from decarboxylation upon heating. % assay and CBN "as is".

F074
CoA – Certificado de Análise de
Produto (*Certificate of Analysis*)

Revisão 4.0



Certification Statement

The above information is authentic and accurate. All analyses performed on this batch were performed in full compliance with **GMP requirements**.

Certification Status

☐ Provisional ☒ Final

Approval Status

☒ Approved ☐ Rejected OOS#: N/A

Name: Marta Mota
(Quality Control)

electronicamente
Marta
foi aprovando
mento
2/2/2025 17:18

Name: Jorge Godinho
(Founder and CEO)

electronicamente
Godinho
foi aprovando
mento
2/2/2025 21:38 GMT

Name: Joaquim Marques
(Qualified Person)

electronicamente
J. Marques
foi aprovando
mento
2/2/2025 17:37 GMT