

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

Revisão 4.0



Certificate #: CoA0176

Revision: 2.0

Product Name	Medical Cannabis Dry Flower – AlephRed30_500g
Product Number	HBM0-F221-9069
Market/ MA #	Germany
Cultivar/Commercial Name	Hokusai
Batch Number	HB84180465
Manufacturer Name and Address	Sociedade Agrícola Monte das Barrocas, Lda Herdade das Barrocas IP2, Km 222, São Lourenço de Mamporcão 7100-650 ESTREMOZ PORTUGAL
Manufacturing Date	17 th July/2025
Expiry Date / Re-test	17 th January/2026 (6 months)

Identity Test			
Test	Method	Specification	Result
Macroscopic Identification (Identification A)	Monograph Ph.Eur. 11.7 "Cannabis flower" (Visual)	Complies to the requirements of the monograph	Complies
Microscopic Identification (Identification B)	Monograph of Ph.Eur. 11.7 "Cannabis flower" (Microscopy)	Complies to the requirements of the monograph	Complies
HPTLC (Identification C)	Monograph of Ph.Eur. "Cannabis flower" Ph. Eur. 11.7 (2.8.25)	Complies 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%	7.0%
Related Substances (CBN)	Internal Method (HB_QT_HPLC_EP_FL_2) Ph.Eur. (2.2.29)	≤1.0%	0.12%
THCA		± 10% from values stated on the label	28.2%
THC			0.8%
Total content of THCA+THC			29.1%

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Purity Test-Assay				
Test	Method	Specification	Result	
CBD	Ph.Eur. (2.8.2)	± 10% from values stated on the label	< 0.2% (LOQ)	
CBDA			< 0.2% (LOQ)	
Total content of CBD and CBDA			< 0.2% (LOQ)	
Terpenes	Met_CQ_009/20 Rev.11	Informative	Alpha-pinene	0.3424 mg/g
			Camphene	0.1052 mg/g
			Beta-pinene	0.7528 mg/g
			Myrcene	2.6659 mg/g
			3 - carene	0.0010 mg/g
			Alpha-terpinene	0.0027 mg/g
			Cymene	0.0033 mg/g
			D.L-limonene	3.5981 mg/g
			Gamma-terpinene	0.0025 mg/g
			Terpinolene	0.0299 mg/g
			L-Fenchone	0.0395 mg/g
			Linalool	0.6554 mg/g
			Fenchol	0.3772 mg/g
			Camphor	0.0004 mg/g
			Iso-borneol	0.0049 mg/g
			Borneol	0.1135 mg/g
			D.L-Menthol	0.0010 mg/g
			Alpha-terpineol	0.4045 mg/g
			B-citronellol	0.0091 mg/g
			R-pulegone	0.0055 mg/g
Geraniol	0.0199 mg/g			
Geranyl acetate	ND			
Alpha-cedrene	0.0547 mg/g			
Beta-caryophellene	4.8333 mg/g			
Alpha-humulene	1.7783 mg/g			
Nerolidol	0.1559 mg/g			

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Purity Test-Assay				
Test	Method	Specification	Result	
Terpenes	Met_CQ_009/20 Rev.11	Informative	Cedrol	ND
			Beta-eudesmol	ND
			Alpha-bisabolol	0.4402 mg/g
			Phytol	0.2757 mg/g
Pesticides	Ph. Eur. 11.7 (2.8.13)	Complies with requirements of monograph	Complies	
Heavy Metals	Met_CQ_009/20 Rev. 11 Ph. Eur. 11.7 (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)	
Mycotoxins	Met_CQ_009/20 Rev.11 Ph. Eur. 11.7 (2.8.18)	Aflatoxin B1 ≤ 2 $\mu\text{g}/\text{kg}$	< 0.25 $\mu\text{g}/\text{kg}$ (LOD)	
		Sum (B1, B2, G1, G2) ≤ 4 $\mu\text{g}/\text{kg}$	< 0.25 $\mu\text{g}/\text{kg}$ (LOD)	
	Met_CQ_009/20 Rev.11 Ph. Eur. 11.7 (2.8.22)	Ochratoxin A ≤ 20 $\mu\text{g}/\text{kg}$	< 2 $\mu\text{g}/\text{kg}$ (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	5.5×10^2 CFU/g (550 CFU/g)
Total combined Yeasts and Molds Count (TYMC)		$\leq 10^4$ CFU/g Maximum acceptable count: 50 000 CFU/g	1.5×10^2 CFU/g (150 CFU/g)
Bile-tolerant gram negative bacteria		$\leq 10^4$ CFU/g	< 10^1 CFU/g
<i>Escherichia coli</i>		Absence (g)	Absent (1 g)
<i>Salmonella</i>		Absence (25 g)	Absent (25 g)

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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".

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)

Name: Jorge Godinho
(Founder and CEO)

Name: Joaquim Marques
(Qualified Person)