

			CERTIFICATE OF ANALYSIS	
Quality Standard Number: 3010-QS-QC-000041, R12		Packaging Date: 30AUG24 DOM: 30AUG24		Page 1 of 4
Product Name: TILRAY Cannabisblüten THC18 Spotlight Porto		Batch Size: 1000 Units of 15 grams		Revision: 1
Lot: 23TC14RS010105		☒ Expiry Date: 03/2025 ☐ Retest Date:		
CoA Number: 1024-011				

APPROVALS

Prepared by:

Daniel Tavares
Quality Control Chemist Associate

Signing Reason: I am the author of this document
Signing Time: 2024/10/15 | 15:10 BST
73F4B38D267E4454A05BD5EE0E0188B5

Date: 2024/10/15 | 15:11 BST

Reviewed by:

Olga Santos
Quality Control Manager

Signing Reason: I have reviewed this document
Signing Time: 2024/10/15 | 16:46 BST
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Date: 2024/10/15 | 17:03 BST

Approved by:

Sandra Vieira
Qualified Person

Signing Reason: I have reviewed this document
Hora de assinatura: 2024/10/15 | 17:35 BST
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Date: 2024/10/15 | 17:35 BST

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Certificate of Analysis

Test		Acceptance Criteria	Procedure	Result
Physical Properties:				
Identification		Complies with macroscopic identification for cannabis inflorescence from <i>Cannabis spp.</i>	3010-TM-QC-000005 DAB Monograph Cannabis Flos - Test A	Complies ¹
		Complies with microscopic identification for cannabis inflorescence from <i>Cannabis spp.</i>	Third Party DAB Monograph Cannabis Flos - Test B	Complies
Appearance		Brownish-green dried flowers essentially free of leaves and stems. Should be free from moulds, insects and other animal contamination.	3010-TM-QC-000012 Ph.Eur.2.8.2	Complies
Foreign Matter		≤ 2% (w/w)	3010-TM-QC-000002 Ph.Eur.2.8.2	Complies ¹
Loss on Drying		≤ 10% (w/w)	3010-TM-QC-000015 Ph.Eur.2.2.32	9% ¹
Fill Weight		15.0g/bag + 5% (15.00g - 15.75g)	Gravimetric	Complies 15.3 g (15.12-15.58 g)
Chemistry:				
Identification – THC; THC-A; CBD and CBD-A		Retention times correspond to that in a standard chromatogram. Positively identified.	3010-TM-QC-000001 Ph.Eur.2.2.46 and 2.8.20	Complies ¹
Assay (Dry Basis)	THC	Total THC (THC+THCA*0.877) (% w/w) 90-110% of label claim (16.2% - 19.8%) Report THC in % (w/w) Report THCA in % (w/w)	3010-TM-QC-000001 Ph.Eur.2.2.46 and 2.8.20	104% ¹ 18.8% ¹ 0.5% ¹ 20.9% ¹

TILRAY PORTUGAL, UNIPessoal LDA. Zona Industrial de Cantanhede, lote 121,
3060-197 Cantanhede, Portugal; Phone +351 231410892

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Test	Acceptance Criteria	Procedure	Result
Related Substances	CBD ≤ 1.0% (w/w)	3010-TM-QC-000001	Not Detected ¹ (<0.157% (LoD))
	CBN ≤ 1.0% (w/w)	Ph.Eur.2.2.46 and 2.8.20	Not Detected ¹ (<0.113% (LoD))
Total Ash	≤ 20%	Third Party Ph.Eur.2.4.16	10%
Elemental Impurities	Arsenic ≤ 0.2 ppm Cadmium ≤ 0.3 ppm Lead ≤ 0.5 ppm Mercury ≤ 0.1 ppm	3010-TM-QC-000009 Ph.Eur.2.4.27	< 0.0437 ppm (LoQ) < 0.0450 ppm (LoQ) < 0.0752 ppm (LoQ) < 0.0157 ppm (LoQ)
Pesticides Residues	Complies	Third Party Ph.Eur.2.8.13	Complies ²
Mycotoxins:			
Aflatoxins	B1 ≤ 2 ppb	3010-TM-QC-000004	Not Detected (<0.28 ppb (LoD))
	B1 + B2 + G1 + G2 ≤ 4 ppb	Ph.Eur.2.8.18	Not applicable
Microbiology:			
TAMC	NMT 1x10 ² CFU/g Maximum Acceptable Count = 200	Third Party Ph. Eur. 2.6.12	<100 CFU/g
TYMC	NMT 1x10 ¹ CFU/g Maximum Acceptable Count = 20	Third Party Ph. Eur. 2.6.12	<10 CFU/g
Bile-tolerant gram-negative bacteria	Absence/1g	Third Party Ph. Eur. 2.6.13	Absent/g
Salmonella	Absence/25g	Third Party Ph. Eur. 2.6.31	Absent/25g
Escherichia coli	Absence/1g	Third Party Ph. Eur. 2.6.31	Absent/g
Staphylococcus aureus	Absence/1g	Third Party Ph. Eur. 2.6.13	Absent/g
Pseudomonas aeruginosa	Absence/1g	Third Party Ph. Eur. 2.6.13	Absent/g

¹ Results based on Bulk 23TC14RS010101_IP-24-1569² Based on results of pesticide analysis of the substrate and water used in cultivation according to RA_028_19

☒ **Physical and chemical properties** – (Internal) Performed under manufacturing license in premises located at Parque Tecnológico de Cantanhede, PME Building, Núcleo 4 – Lote 4A, Laboratórios L01, 3060-197 Cantanhede.

☒ **Identification DAB Monograph Cannabis flos - Test B:** LEF (3rd Party laboratory) - Infosaúde – Instituto de Formação e Inovação em Saúde, Unipessoal, Lda

☒ **Microbiology testing:** LEF (3rd Party laboratory) - Infosaúde – Instituto de Formação e Inovação em Saúde, Unipessoal, Lda

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- ☒ **Pesticides:** SGS Portugal (3rd Party laboratory) - *SGS Portugal - Sociedade Geral de Superintendência S.A.*
- ☐ **Pesticides:** QSI (3rd Party laboratory) - Quality Services International GmbH. Germany
- ☐ **Residual Solvents:** LEF (3rd Party laboratory) - *Infosaúde – Instituto de Formação e Inovação em Saúde, Unipessoal, Lda.*
- ☐ **Ochratoxin A:** LEF (3rd Party laboratory) - *Infosaúde – Instituto de Formação e Inovação em Saúde, Unipessoal, Lda.*
- ☒ **Total Ash:** LEF (3rd Party laboratory) - *Infosaúde – Instituto de Formação e Inovação em Saúde, Unipessoal, Lda.*

☒ Approved
☐ Not Approved

Comments and Conclusions:
The product complies with DAB 10 Monograph. All manufacturing stages of this batch of finished product have been carried out full compliance with EU GMP requirements.

REVISION HISTORY

Revision	Revision Date	Reason for Revision
1	01 OCT 24	First version of this document.