		<b>CERTIFICATE OF ANALYSIS</b>	
Quality Standard Number: 3010-QS-QC-000041, R12		Packaging Date: 24SEP24 DOM: 24SEP24	Page 1 of 4
Product Name: TILRAY Cannabisblüten THC22 Spotlight Porto		Batch Size: 3790 Units of 15 grams	Revision: 1
Lot: 23GS11GG4010103		<input checked="" type="checkbox"/> Expiry Date: 06/2025 <input type="checkbox"/> Retest Date:	
CoA Number: 1024-044			


**APPROVALS**

Prepared by: 


Date: 2024/10/31 | 12:02 GMT

Reviewed by: 

Date: 2024/10/31 | 15:25 GMT

Approved by: 


Date: 2024/10/31 | 17:00 GMT

		<b>CERTIFICATE OF ANALYSIS</b>	
Quality Standard Number: 3010-QS-QC-000041, R12		Packaging Date: 24SEP24 DOM: 24SEP24	Page 2 of 4
Product Name: TILRAY Cannabisblüten THC22 Spotlight Porto		Batch Size: 3790 Units of 15 grams	Revision: 1
Lot: 23GS11GG4010103		<input checked="" type="checkbox"/> Expiry Date: 06/2025 <input type="checkbox"/> Retest Date:	
CoA Number: 1024-044			

**Certificate of Analysis**

Test	Acceptance Criteria	Procedure	Result	
<b>Physical Properties:</b>				
Identification	Complies with macroscopic identification for cannabis inflorescence from <i>Cannabis spp.</i>	3010-TM-QC-000005 DAB Monograph Cannabis Flos - Test A	Complies <sup>1</sup>	
	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 <sup>1</sup>	
Loss on Drying	≤ 10% (w/w)	3010-TM-QC-000015 Ph.Eur.2.2.32	9% <sup>1</sup>	
Fill Weight	15.0g/bag + 5% (15.00g - 15.75g)	Gravimetric	Complies 15.4 g (15.21-15.60 g)	
<b>Chemistry:</b>				
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 <sup>1</sup>
Assay (Dry Basis)	THC	Total THC (THC+THCA*0.877) (% w/w) 90-110% of label claim (19.8% - 24.2%) Report THC in % (w/w) Report THCA in % (w/w)	3010-TM-QC-000001 Ph.Eur.2.2.46 and 2.8.20	92% <sup>1</sup> 20.3% <sup>1</sup> <0.079% (LoD) <sup>1</sup> 23.2% <sup>1</sup>

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		<b>CERTIFICATE OF ANALYSIS</b>	
Quality Standard Number: 3010-QS-QC-000041, R12		Packaging Date: 24SEP24 DOM: 24SEP24	Page 3 of 4
Product Name: TILRAY Cannabisblüten THC22 Spotlight Porto		Batch Size: 3790 Units of 15 grams	Revision: 1
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CoA Number: 1024-044			

Test	Acceptance Criteria	Procedure	Result
Related Substances	CBD ≤ 1.0% (w/w) CBN ≤ 1.0% (w/w)	3010-TM-QC-000001 Ph.Eur.2.2.46 and 2.8.20	<0.157% (LoD) <sup>1</sup> Not Detected <sup>1</sup> (<0.113% (LoD))
Total Ash	≤ 20%	Third Party Ph.Eur.2.4.16	8%
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 <sup>2</sup>
<b>Mycotoxins:</b>			
Aflatoxins	B1 ≤ 2 ppb B1 + B2 + G1 + G2 ≤ 4 ppb	3010-TM-QC-000004 Ph.Eur.2.8.18	Not Detected (<0.28 ppb (LoD)) Not applicable
<b>Microbiology:</b>			
TAMC	NMT 1x10 <sup>2</sup> CFU/g Maximum Acceptable Count = 200	Third Party Ph. Eur. 2.6.12	<100 CFU/g
TYMC	NMT 1x10 <sup>1</sup> CFU/g Maximum Acceptable Count = 20	Third Party Ph. Eur. 2.6.12	<10 CFU/g
<i>Bile-tolerant gram-negative bacteria</i>	Absence/1g	Third Party Ph. Eur. 2.6.13	Absent/g
<i>Salmonella</i>	Absence/25g	Third Party Ph. Eur. 2.6.31	Absent/25g
<i>Escherichia coli</i>	Absence/1g	Third Party Ph. Eur. 2.6.31	Absent/g
<i>Staphylococcus aureus</i>	Absence/1g	Third Party Ph. Eur. 2.6.13	Absent/g
<i>Pseudomonas aeruginosa</i>	Absence/1g	Third Party Ph. Eur. 2.6.13	Absent/g

<sup>1</sup> Results based on Bulk 23GS11GG4010101\_SN\_IP-24-1529.


<sup>2</sup> Based on results of pesticide analysis of the substrate and water used in cultivation according to 3010-RA-QA-000022.

**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 (3<sup>rd</sup> Party laboratory) - Infosaúde – Instituto de Formação e Inovação em Saúde, Unipessoal, Lda

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

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CoA Number: 1024-044			

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

<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Not Approved
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<b>Comments and Conclusions:</b>
<p>The product complies with DAB 10 Monograph.  <b>All manufacturing stages of this batch of finished product have been carried out full compliance with EU GMP requirements.</b></p>

### REVISION HISTORY

Revision	Revision Date	Reason for Revision
1	16 OCT 24	First version of this document.

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