Docusign Envelope ID: CDA0C43E-FFAB-46DC-B32A-D3E0418C8FA7

# CERTIFICATE OF ANALYSIS

| Lot: 25004102 | CoA Number: 1025-038 | Revision: 1 |
|---|---|---|

| Product Name: Tilray Cannabisextrakt THC5CBD20 | Quality Standard Number: 3010-QS-QC-000049, R9 |
|---|---|

| Packaging Date: 25SEP25<br>DOM: 18SEP25 | ☒ Expiry Date: 07/2026<br>☐ Retest Date: | Batch Size: 604 Units of 25 mL |
|---|---|---|

| Test | | Acceptance Criteria | Procedure | Result |
|---|---|---|---|---|
| **Physical Properties:** | | | | |
| Appearance | | Free of particles /homogeneous /transparent greenish or yellow to brown solution. | 3010-TM-QC-000012 | Complies |
| Fill Volume | | 25 mL/bottle + 2% (25.0 – 25.5 mL) | Gravimetric | Complies<br>25 mL (25.1 – 25.3 mL) |
| **Chemistry:** | | | | |
| Identification – THC, THCA, CBD and CBDA | | Retention times correspond to that in a standard chromatogram. Positively identified. | 3010-TM-QC-000014<br>Ph. Eur. 2.2.46 | Complies |
| Assay | THC | Total THC – (THC+(THCA*0.877)) - (mg/mL)<br>90 – 110% of label claim in mg/mL<br>(4.5 mg/mL – 5.5 mg/mL)<br>Report THCA: mg/mL (w/v)<br>Report Total THC% (w/w) (Calculated as per measured density) | | 104%<br>(5.2 mg/mL)<br>ND (< 0.0027 mg/mL(LoD))<br>0.6% (w/w) |
| | CBD | Total CBD – (CBD+(CBDA*0.877)) - (mg/mL)<br>90 – 110% of label claim in mg/mL<br>(18.0 mg/mL – 22.0 mg/mL)<br>Report CBDA: mg/mL (w/v)<br>Report Total CBD% (w/w) (Calculated as per measured density) | | 104%<br>(20.8 mg/mL)<br>0.082 mg/mL<br>2.2% (w/w) |
| Related Substances (Relative to combined weight of active ingredients) | | CBN ≤ 2.5% (w/w)<br>Total related substances – Report only | | 0.2% (w/w)<br>0.2% (w/w) |
| Water Content | | ≤ 0.5% (w/w) | 3010-TM-QC-000013<br>Ph. Eur. 2.5.12 | 0.03% (w/w) |
| Elemental Impurities | | Arsenic ≤ 1.5 ppm<br>Cadmium ≤ 0.5 ppm<br>Lead ≤ 0.5 ppm<br>Mercury ≤ 0.1 ppm | 3010-TM-QC-000009<br>Ph. Eur. 2.4.27 | < 0.2186 ppm (LoQ)<br>< 0.2249 ppm (LoQ)<br>< 0.0752 ppm (LoQ)<br>< 0.0157 ppm (LoQ) |
| Residual Solvents | | ≤ 0.5% (w/w) | Third Party Procedure<br>Ph. Eur. 2.4.24 | Ethanol: < 0.04% (LoQ)<br>n-Hexane: < 0.0023% (LoQ) |
| Pesticides | | Complies | Third Party Procedure<br>Ph. Eur. 2.8.13 | Complies [2] |
| **Mycotoxins:** | | | | |
| Aflatoxins | | B1 ≤ 2 ppb<br>B1 + B2 + G1 + G2 ≤ 4 ppb | Third Party Procedure<br>Ph. Eur. 2.8.18 | < 0.25 ppb (LoD) [1]<br>< 0.25 ppb (LoD) [1] |
| **Microbiology:** | | | | |
| *TAMC* | | ≤ $1x10^3$ CFU/g<br>Maximum Acceptable Count = 2000 | Third Party Procedure<br>Ph. Eur. 2.6.12 | <10 CFU/g |
| *TYMC* | | ≤ $1x10^2$ CFU/g<br>Maximum Acceptable Count = 200 | | <10 CFU/g |
| *Bile-tolerant gram negative bacteria* | | ≤ $1x10^2$ CFU/g<br>Maximum Acceptable Count = 200 | Third Party Procedure<br>Ph. Eur. 2.6.31 | <10 CFU/g |
| *Salmonella* | | Absence/25g | Third Party Procedure<br>Ph. Eur. 2.6.31 | Absent/25g |
| *Escherichia coli* | | Absence/1g | | Absent/g |
| *Staphylococcus aureus* | | Absence/1g | Third Party Procedure | Absent/g |

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| TILRAY | CERTIFICATE OF ANALYSIS | | |
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| Test | Acceptance Criteria | Procedure | Result |
|---|---|---|---|
| *Pseudomonas aeruginosa* | Absence/1g | Ph. Eur. 2.6.13 | Absent/g |

**ND-** Not detected**; NA-** Not Applicable

[1] Results from LEF (3rd Party laboratory) - *Infosaúde – Instituto de Formação e Inovação em Saúde, Unipessoal, Lda.*

[2] Periodic testing based on the 3010-RA-QA-000138 and 3010-RA-QA-000137.

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

☒ **Microbiology testing,** ☒ **Residual Solvents,** ☐ **Ochratoxin A**, ☐ **Total Ash,** ☐ **ID- Test B,** ☐ **ID by HPTLC:** LEF (3rd Party laboratory) - *Infosaúde – Instituto de Formação e Inovação em Saúde, Unipessoal, Lda*

☒ **Pesticides**: SGS Portugal (3, rd Party laboratory) - *SGS Portugal - Sociedade Geral de Superintendência S.A.*

☐ **Pesticides**: QSI (3rd Party laboratory) - Quality Services International GmbH. Germany

**Comments and Conclusions:**

Relative density: 0.9476 (Tested by 3010-TM-QC-000011; Ph. Eur. 2.2.5)
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.**

| | ☒ Approved ☐ Not Approved | |
|---|---|---|
| **Prepared by:** (Quality Control) | Daniela Marques (Quality Control Supervisor)<br>Assinado por: Daniela Marques<br>Nome do signatário: Daniela Marques<br>Motivo da assinatura: Sou o autor/a autora deste documento<br>Hora de assinatura: 2025/10/17 \| 17:38 BST<br>C5C9D0AB8B25475C945708A733FCF9AA | (Date)<br>2025/10/17 \| 17:39 BST |
| **Reviewed and Approved by:** (Qualified Person) | João Azevedo (Qualified Person)<br>Signed by: João Azevedo<br>Signer Name: João Azevedo<br>Signing Reason: I approve this document<br>Signing Time: 2025/10/17 \| 17:42 BST<br>7251DEBF20694DAFA3DEA45B36B7488A | (Date)<br>2025/10/17 \| 17:43 BST |

**REVISION HISTORY**

| Revision | Revision Date | Reason for Revision |
|---|---|---|
| 1 | 15 OCT 25 | First version of this document. |