



## Certificate of Analysis

|                  |                                                  |
|------------------|--------------------------------------------------|
| Specification    | ESP-101/04                                       |
| Product          | 50:1 Grünhorn Cannabisextrakt Hybrid<br>- 500 mL |
| Code             | FDF0104                                          |
| Batch no.        | D0346                                            |
| Date of Analysis | 29/09/2025                                       |

|                    |                           |
|--------------------|---------------------------|
| CoA no.            | 2504954                   |
| Manufacturing date | 20/08/2025                |
| Expiry date        | 31/08/2027                |
| Presentation       | 500 mL amber glass flasks |
| Bulk batch no.     | D0329                     |

| TEST                                                     | Method                 | Acceptance Criteria                                                                                                                                                      | Results               |
|----------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Appearance                                               | MA-008                 | Slightly to yellowish liquid                                                                                                                                             | Complies              |
| Identification: HPLC                                     | MA-008 / DAB           | The chromatograms of the sample solution obtained in the assay test must show the main peaks with a retention time similar to the chromatograms of the standard solution | Positive              |
| Identification: TLC                                      | MA-008                 | The sequence of zones in the chromatograms of the reference solution and the test solution are similar                                                                   | Positive              |
| Relative density                                         | MA-008                 | Informative value                                                                                                                                                        | 0.953                 |
| Water                                                    | MA-008                 | ≤ 0.5 %                                                                                                                                                                  | 0.03 %                |
| Cannabinoids                                             |                        |                                                                                                                                                                          |                       |
| Δ <sup>9</sup> -THC                                      | MA-008 / DAB           | Report value                                                                                                                                                             | 50.46 mg/mL           |
| Δ <sup>9</sup> -THCA                                     | MA-008 / DAB           | Report value                                                                                                                                                             | < 0.003 (LOD) mg/mL   |
| Total THC<br>[THC + (THCA x 0.877)]                      | MA-008 / DAB           | 90.0 % to 110.0 % of the label content                                                                                                                                   | 100.9 % (50.46 mg/mL) |
| CBD                                                      | MA-008 / DAB           | Report value                                                                                                                                                             | 0.34 mg/mL            |
| CBDA                                                     | MA-008 / DAB           | Report value                                                                                                                                                             | < 0.003 (LOD) mg/mL   |
| Total CBD<br>[CBD + (CBDA x 0.877)]                      | MA-008 / DAB           | < 1.00 mg/mL                                                                                                                                                             | 0.34 mg/mL            |
| CBN                                                      | MA-008 / DAB           | ≤ 1.0 %                                                                                                                                                                  | 0.03 %                |
| Other cannabinoid (Together with any corresponding acid) | MA-008 / DAB           | ≤ 2.0 %                                                                                                                                                                  | 0.24 %                |
| Total other cannabinoids                                 | MA-008 / DAB           | Report value                                                                                                                                                             | 0.70 %                |
| Mycotoxins                                               |                        |                                                                                                                                                                          |                       |
| Aflatoxin B1                                             | MA-008 / Ph.Eur.2.8.18 | ≤ 2 µg/Kg                                                                                                                                                                | < 0.25 (LOD) µg/Kg    |
| Aflatoxins<br>(B1+B2+G1+G2)                              | MA-008 / Ph.Eur.2.8.18 | ≤ 4 µg/Kg                                                                                                                                                                | < 0.25 (LOD) µg/Kg    |
| Ochratoxin A                                             | MA-008 / Ph.Eur.2.8.22 | ≤ 20 µg/Kg                                                                                                                                                               | < 2 (LOD) µg/Kg       |
| Heavy Metals                                             |                        |                                                                                                                                                                          |                       |
| Arsenic (As) *                                           | MA-008 / Ph.Eur.2.4.27 | ≤ 0.2 ppm                                                                                                                                                                | < 0.020 (LOQ) ppm     |
| Cadmium (Cd) *                                           | MA-008 / Ph.Eur.2.4.27 | ≤ 0.3 ppm                                                                                                                                                                | < 0.005 (LOQ) ppm     |
| Lead (Pb) *                                              | MA-008 / Ph.Eur.2.4.27 | ≤ 0.5 ppm                                                                                                                                                                | < 0.020 (LOQ) ppm     |
| Mercury (Hg) *                                           | MA-008 / Ph.Eur.2.4.27 | ≤ 0.1 ppm                                                                                                                                                                | < 0.050 (LOQ) ppm     |
| Nickel (Ni) *                                            | MA-008 / Ph.Eur.2.4.27 | Indicative                                                                                                                                                               | < 2.000 (LOQ) ppm     |
| Zinc (Zn) *                                              | MA-008 / Ph.Eur.2.4.27 | Indicative                                                                                                                                                               | < 3.996 (LOQ) ppm     |
| Pesticides                                               |                        |                                                                                                                                                                          |                       |
| Pesticides *                                             | MA-008 / Ph.Eur.2.8.13 | Complies with Ph.Eur.2.8.13                                                                                                                                              | Complies              |



## Certificate of Analysis

|                  |                                                  |
|------------------|--------------------------------------------------|
| Specification    | ESP-101/04                                       |
| Product          | 50:1 Grünhorn Cannabisextrakt Hybrid<br>- 500 mL |
| Code             | FDF0104                                          |
| Batch no.        | D0346                                            |
| Date of Analysis | 29/09/2025                                       |

|                    |                           |
|--------------------|---------------------------|
| CoA no.            | 2504954                   |
| Manufacturing date | 20/08/2025                |
| Expiry date        | 31/08/2027                |
| Presentation       | 500 mL amber glass flasks |
| Bulk batch no.     | D0329                     |

| TEST                                      | Method                                   | Acceptance Criteria | Results           |
|-------------------------------------------|------------------------------------------|---------------------|-------------------|
| Residual solvents                         |                                          |                     |                   |
| Ethanol                                   | MA-008 / Ph.Eur.5.4.                     | < 5000 ppm          | < 312.5 (LOD) ppm |
| Microbial Quality                         |                                          |                     |                   |
| TAMC - Total aerobic microbial count      | MA-008 / Ph.Eur.2.6.12. & Ph.Eur.5.1.4.  | $\leq 10^3$ CFU/mL  | < 10 CFU/mL       |
| TYMC - Total combined yeast & mould count | MA-008 / Ph.Eur.2.6.12. & Ph.Eur.5.1.4.  | $\leq 10^2$ CFU/mL  | < 10 CFU/mL       |
| Bile-tolerant gram-negative bacteria      | MA-008 / Ph.Eur.2.6.13 & Ph. Eur. 5.1.4. | $\leq 10^2$ CFU/mL  | < 10 CFU/mL       |
| <i>Escherichia coli</i>                   | MA-008 / Ph.Eur.2.6.13 & Ph. Eur. 5.1.4. | Absence in 1 mL     | Absence /mL       |
| <i>Salmonella</i>                         | MA-008 / Ph.Eur.2.6.13 & Ph. Eur. 5.1.4. | Absence in 10 mL    | Absence /10mL     |
| <i>Staphylococcus aureus</i>              | MA-008 / Ph.Eur.2.6.13 & Ph. Eur. 5.1.4. | Absence in 1 mL     | Absence /mL       |

### Comments

Results in compliance with the specification.

Mycotoxins, Heavy Metals, Pesticides and Ethanol were performed on purified extract batch.

(\*)Result reported from LEF (CoA 25/3301)

### Status:

Approved

### Signed by:

Joana Coutinho

Quality Control Director

29/09/2025 16:48

*Application of electronic signature*