

Brightlabs BV

St. Jansweg 20, 5928 RC Venlo, The Netherlands
 Tel.: 077-7703374
info@brightlabs.nl



Report number: CoA- 2020-7974B

Report date: 24 november 2020

Analytical report

| | | | |
|-----------------|---------------|-----------------|------------|
| Client: | Hemp M&S GmbH | Contact: | Boy Grande |
| Address: | Koningsweg 36 | City: | Alkmaar |

| | | | |
|--------------------------------|--------------|---|------------------|
| Product name: | CBDium 1000 | | |
| Date of sampling: | unknown | Identification sample: (client) | C3A20.04H |
| Date of receipt sample: | 17 Sept 2020 | Identification sample: (Brightlabs) | BL- 2020-7974 |
| Date start of analysis: | 18 Sept 2020 | Method: | See tables below |

Characteristics

| Parameter | Method | Result | Unit | Specification |
|----------------|---------------------|---------|-------------------|---|
| Colour | visual | comply | n.a. | Yellow to orange to dark green, clear to cloudy viscous liquid. |
| Odour | sensual | comply | n.a. | Typical hemp odour and the chosen eatable oil. |
| Viscosity | Density | 0.92945 | g/cm ³ | Specified for each quality oil |
| Peroxide value | Iodometrie ISO 3960 | 22 | Meq/kg | ≤ 20 |
| | | 32 | | |
| | | 36 | | |

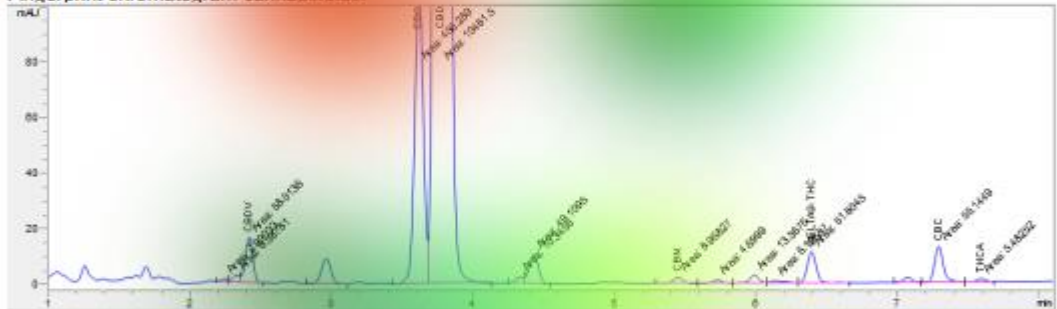
Assay and related impurities

| Parameter | Method | Result | Unit | Specification |
|--------------------|---------|---------|-------|-----------------------|
| CBD | HPLC-UV | 9.7 | % w/w | Label claim ± 10% w/w |
| CBD-A ^A | HPLC-UV | < 0.005 | % w/w | Label claim ± 10% w/w |
| D9-THC | HPLC-UV | 0.05 | % w/w | ≤ 0.05% w/w |
| THC-A | HPLC-UV | < 0.005 | % w/w | ≤ 0.05% w/w |

^A if specified on the label claim.

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Fingerprint chromatogram cannabinoids:



| Impurities | | | |
|--|---------------------|-------|---------------|
| Heavy metals (Analytical method: ICP-MS) | | | |
| Parameter | Result ^A | Unit | Specification |
| Pb | < 0.6 | mg/kg | ≤ 3.0 mg/kg |
| Cd | < 0.2 | mg/kg | ≤ 1.0 mg/kg |
| Hg | < 0.04 | mg/kg | ≤ 0.1 mg/kg |

^A LOQ values conform Verordening (EC) 333/2007.

| Pesticides (conform SANTE/11945/2015) | | | | |
|---|--|---|-------|---------------|
| Analytical method | Component* | Concentration | Unit | Specification |
| GC-MS/MS Multiresidue method for pesticides | No pesticide detected above the reporting limit | - | mg/kg | Informative |
| LC-MS/MS Multiresidue method for pesticides | No pesticide detected above the reporting limit | - | mg/kg | Informative |
| *See Brightlabs pesticides analysis package: | | http://www.brightlabs.nl/food/feedagro/docs/ljst-v7.pdf | | |
| Reporting limit 0.05 mg/kg | | | | |

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| Mycotoxine (Analytical method: LC-MS/MS) | | | |
|--|---------------------|-------|---------------|
| Parameter | Result | Unit | Specification |
| Aflatoxine B ₁ | < 2.0 | µg/kg | ≤ 2.0 µg/kg |
| Sum B ₁ , B ₂ , G ₁ and G ₂ | < 4.0 | µg/kg | ≤ 4.0 µg/kg |
| Polycyclic Aromatic Hydrocarbons | | | |
| Parameter | Result [^] | Unit | Specification |
| Benzo(a)pyreen | 0.9 | µg/kg | ≤ 10 µg/kg |
| Sum Benzo(a)pyreen, benz(a)anthraceen, benzo(b)fluorantheen and chryseen | 11.7 | µg/kg | ≤ 50 µg/kg |

[^] LOQ values conform Verordening (EC) 333/2007

| Dioxines and PCB's | | | |
|--|---------------------|------|---------------|
| Parameter | Result [^] | Unit | Specification |
| Som van dioxines | 0.201 | pg/g | ≤ 0.75 pg/g |
| Som van dioxines en dioxineachtige PCBS | 0.339 | pg/g | ≤ 1.25 pg/g |
| Som van PCB28, PCB52, PCB101, PCB138, PCB153 en PCB180 | 3.0 | ng/g | ≤ 40 ng/g |

LOQ values conform Verordening (EC) 2017/644

| Microbiology | | | |
|--------------------------------------|---------|------------|-----------------------------|
| Test | Results | Unit | Specification |
| TAMC (total aerobic Microbial Count) | < 10 | cfu / gram | <10 ⁴ cfu / gram |
| TYMC (Total Yeast and Moulds Count) | < 10 | cfu / gram | <10 ² cfu / gram |
| Enterobacteria | Absent | / gram | <10 ² cfu / gram |
| E. Coli | Absent | / gram | Absent / gram |
| S. aureus | Absent | / gram | Absent / gram |
| Salmonella spp | Absent | / gram | Absent / gram |

¹ colony forming unit

| | | |
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| Residual solvents (Analytical method: HS-GC) | | | |
|--|--------|-------|----------------------------|
| Parameter | Result | Unit | Specification ^A |
| n-Pentane | < 5000 | mg/kg | ≤ 5000 mg/kg |
| n-Hexane | < 290 | mg/kg | ≤ 290 mg/kg |
| n-Heptane | < 5000 | mg/kg | ≤ 5000 mg/kg |
| Acetone | < 5000 | mg/kg | ≤ 5000 mg/kg |
| Benzene | < 2 | mg/kg | ≤ 2 mg/kg |
| IsoPropanol | < 5000 | mg/kg | ≤ 5000 mg/kg |
| Ethanol | < 5000 | mg/kg | ≤ 5000 mg/kg |

^A according Ph. Eur. 5.4

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| Remarks: CoA-2020-7974B replaces CoA-2020-7974A |
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Nina Firl
Project leader