

<b>Brightlabs BV</b> St. Jansweg 20, 5928 RC Venlo, The Netherlands Tel.: 077-7703374 <a href="mailto:info@brightlabs.nl">info@brightlabs.nl</a>		Report number: CoA-	2020-7975A
		Report date:	24 november 2020

## Analytical report

<b>Client:</b>	Hemp M&S GmbH	<b>Contact:</b>	Boy Grande
<b>Address:</b>	Koningsweg 36	<b>City:</b>	Alkmaar

<b>Product name:</b>	CBDium 500		
<b>Date of sampling:</b>	unknown	<b>Identification sample: (client)</b>	C2A20.04H
<b>Date of receipt sample:</b>	17 Sept 2020	<b>Identification sample: (Brightlabs)</b>	BL- 2020-7975
<b>Date start of analysis:</b>	18 Sept 2020	<b>Method:</b>	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	0.92462	g/cm <sup>3</sup>	Specified for each quality oil
Peroxide value	Iodometrie ISO 3960	17	Meq/kg	≤ 20

Assay and related impurities				
Parameter	Method	Result	Unit	Specification
CBD	HPLC-UV	5.2	% w/w	Label claim ± 10% w/w
CBD-A <sup>A</sup>	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

<sup>A</sup> if specified on the label claim.



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### Mycotoxine (Analytical method: LC-MS/MS)

Parameter	Result	Unit	Specification
Aflatoxine B <sub>1</sub>	< 2.0	µg/kg	≤ 2.0 µg/kg
Sum B <sub>1</sub> , B <sub>2</sub> , G <sub>1</sub> and G <sub>2</sub>	< 4.0	µg/kg	≤ 4.0 µg/kg

### Polycyclic Aromatic Hydrocarbons

Parameter	Result <sup>^</sup>	Unit	Specification
Benzo(a)pyreen	0.9	µg/kg	≤ 10 µg/kg
Sum Benzo(a)pyreen, benz(a)anthraceen, benzo(b)fluorantheen and chryseen	10.3	µg/kg	≤ 50 µg/kg

<sup>^</sup> LOQ values conform Verordening (EC) 333/2007

### Dioxines and PCB's

Parameter	Result <sup>^</sup>	Unit	Specification
Som van dioxines	0.275	pg/g	≤ 0.75 pg/g
Som van dioxines en dioxineachtige PCBS	0.431	pg/g	≤ 1.25 pg/g
Som van PCB28, PCB52, PCB101, PCB138, PCB153 en PCB180	10.3	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 <sup>4</sup> cfu / gram
TYMC (Total Yeast and Moulds Count)	< 10	cfu / gram	<10 <sup>2</sup> cfu / gram
Enterobacteria	Absent	/ gram	<10 <sup>2</sup> cfu / gram
E. Coli	Absent	/ gram	Absent / gram
S. aureus	Absent	/ gram	Absent / gram
Salmonella spp	Absent	/ gram	Absent / gram

<sup>1</sup> colony forming unit



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<b>Residual solvents (Analytical method: HS-GC)</b>			
<b>Parameter</b>	<b>Result</b>	<b>Unit</b>	<b>Specification<sup>A</sup></b>
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

<sup>A</sup> according Ph. Eur. 5.4

<b>Remarks:</b>
CoA-2020-7975B replaces CoA-2020-7975A.



Nina Firl  
Project leader