

Brightlabs BV St. Jansweg 20, 5928 RC Venlo, The Netherlands Tel.: 077-7703374 info@brightlabs.nl		Report number: CoA-	2020-7975A
		Report date:	24 november 2020
Analytical report			

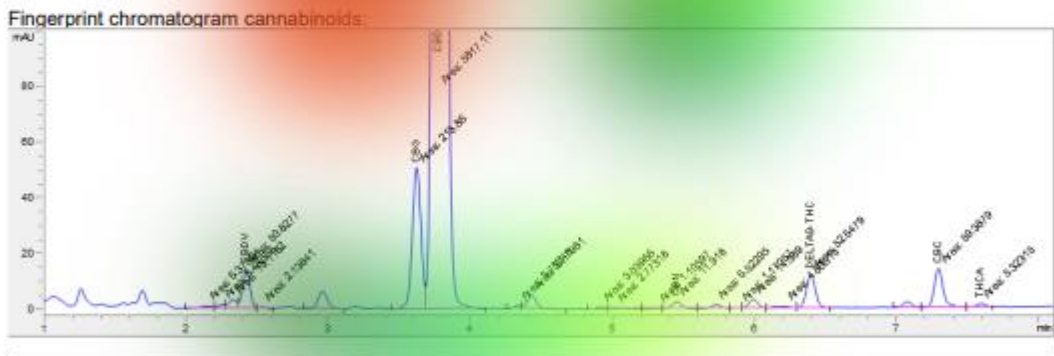
Client:	Hemp M&S GmbH	Contact:	Boy Grande
Address:	Koningsweg 36	City:	Alkmaar

Product name:	CBDium 500		
Date of sampling:	unknown	Identification sample: (client)	C2A20.04H
Date of receipt sample:	17 Sept 2020	Identification sample: (Brightlabs)	BL- 2020-7975
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	0.92462	g/cm ³	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 ^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.



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/lijst-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	10.3	µg/kg	≤ 50 µg/kg

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

Dioxines and PCB's			
Parameter	Result [^]	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 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

Remarks:
CoA-2020-7975B replaces CoA-2020-7975A.



Nina Firl
Project leader

Brightlabs BV

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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

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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			
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TAMC (total aerobic Microbial Count)	< 10	cfu / gram	<10 ⁴ cfu / gram
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Benzene	< 2	mg/kg	≤ 2 mg/kg
IsoPropanol	< 5000	mg/kg	≤ 5000 mg/kg
Ethanol	< 5000	mg/kg	≤ 5000 mg/kg

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