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CERTIFICATE OF ANALYSIS No. 20230105-M2986

Product Information		Sample Information	
Product Name:	Full Spectrum RAW Cannabidiol 15 % (CBD) Oil (HSO)	Sample Received[1]:	2023-01-05
Product Type:	Full Spectrum Oil	Sample Condition:	Suitable
Product ID.	D10713-1	Analysis Completed:	2023-01-05
Batch No.:	Batch 698	Certificate Dated:	2023-01-05
Manufacture Date.	2023-01-05	Retest Interval:	12 months

RESULTS

Compliance with specification TS-P-O-D-R-15-FS-HSO

Parameter	Method	Requirement/ Limits	Results	Compliant / Non-Compliant[2]
Appearance	Visual inspection	From dark green to dark brown	From dark green to dark brown	Compliant
Smell	Sensory analysis	Specific, characteristic smell	Specific, characteristic smell	Compliant
Identification	UV/Vis	Retention time complies with Certified Reference Material	Retention time complies with Certified Reference Material	Compliant
Assay Total Cannabidiol (CBD +CBDA*0.877) %	HPLC	≥ 15.00 %	16.567%	Compliant
Additional cannabinoids:				
CBDA, %		≥ 1.00%	3.864%	Compliant
CBC, %		≥ 0.01%	0.181%	Compliant
CBG, %		≥ 0.01%	0.024%	Compliant
CBN, %		≥ 0.01%	0.012%	Compliant
CBDV, %		≥ 0.01%	0.252%	Compliant
Total Tetrahydrocannabinol %		< 0.20%	0.051%	Compliant
OTHER COMPOUNDS				
CBGA, %	HPLC	N/A	ND	N/A
THCV, %		N/A	ND	N/A
CBL, %		N/A	ND	N/A
CBDVA, %		N/A	ND	N/A
CBDB, %		N/A	ND	N/A
alpha-Pinene, %	GC-FID Terpenes	N/A	0.368%	N/A
Camphene, %		N/A	ND	N/A
(-)-beta-pinene, %		N/A	0.022%	N/A
beta-myricene, %		N/A	0.337%	N/A
delta-3-carene, %		N/A	0.010%	N/A
alpha-terpinene, %		N/A	ND	N/A

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Parameter	Method	Requirement/ Limits	Results	Compliant / Non-Compliant
Limonene, %	GC-FID Terpenes	N/A	0.364%	N/A
p-Cymene, %		N/A	ND	N/A
Ocimene, %		N/A	ND	N/A
gamma-terpinene, %		N/A	ND	N/A
Terpinolene, %		N/A	ND	N/A
Linalool, %		N/A	0.112%	N/A
(-)-isopuelgol, %		N/A	ND	N/A
Geraniol, %		N/A	ND	N/A
beta-Caryophylene, %		N/A	0.374%	N/A
Nerolidol, %		N/A	ND	N/A
(-)-guaiol, %		N/A	ND	N/A
(-)-alpha-bisabol, %		N/A	ND	N/A
Nerol, %		N/A	ND	N/A
alpha-phylandrene, %		N/A	ND	N/A

THE END OF THE CERTIFICATE

Authorized by: Quality Control Analyst **2023-01-05**

Approved by: Quality Control Manager **2023-01-05**

[1] Samples were delivered by the Client.

[2] UAB Biosyyd applies the acceptance decision rule in accordance with ILAC-G8:09/2019: if mesaurement plus minus expanded measument uncertainty meets specification requirements, the parameter is stated as compliant.

[3] Given expanded measurement uncertainly was estimated for the coverage factor k = 2 at 95 % confidence level. Sampling uncertainty has not been taken into consideration.

[4] Test method is accredited.

[5] Test performed on Cannabis Sativa raw material in Third party laboratory.

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PRODUCT CONTAMINATION REPORT

Product Information		Sample Information	
Product Name:	Full Spectrum RAW Cannabidiol 15 % (CBD) Oil (HSO)	Sample Received[1]:	2023-01-05
Product Type:	Full Spectrum Oil	Sample Condition:	Suitable
Product ID:	D10713-1	Analysis Completed:	2023-01-05
Batch No.:	Batch 698	Certificate Dated:	2023-01-05
Manufacture Date:	2023-01-05	Retest Interval:	12 months

RESULTS

Compliance with specification TS-P-O-D-R-15-FS-HSO

Parameter	Method	Requirement/ Limits	Results	Compliant / Non-Compliant [2]
Residual Solvents:				
Ethanol	Gas Chromatography	≤ 50 ppm	ND	Compliant
n-Pentane	Gas Chromatography	≤ 50 ppm	ND	Compliant
2-propanol	Gas Chromatography	≤ 50 ppm	ND	Compliant
n-Heptane	Gas Chromatography	≤ 50 ppm	ND	Compliant
Microbiological quality[5]:				
Enumeration of mesophilic aerobic bacteria	PN-EN ISO 4833-1:2013-12	≤ 10^5 CFU/g	4.0×10^1 CFU/g	Compliant
Enumeration of yeasts	PN-ISO 21527-2:2009	≤ 10^3 CFU/g	$< 1.0 \times 10^1$ CFU/g	Compliant
Enumeration of moulds	PN-ISO 21527-2:2009	≤ 10^3 CFU/g	$< 1.0 \times 10^1$ CFU/g	Compliant
Specified microorganisms:				
Enumeration of *Bacillus Cereus*	PN-EN ISO 7932:2005	≤ 10^3 CFU/g	$< 1.0 \times 10^1$ CFU/g	Compliant
Enumeration of coagulase-positive staphylococci *(Staphylococcus aureaus* and other species)	PN-EN ISO 6888-1:2001+A1:2004	≤ 10^3 CFU/g	$< 1.0 \times 10^1$ CFU/g	Compliant
Detection of Salmonella spp.	PN-EN ISO 6579-1:2017-04	Not Detected in 25 g	Not Detected in 25 g	Compliant
Pesticides[6]:				
Organochlorine pesticides	LMBG-00.00-34:1999 (DFG S19) except section E9	Limits of each Pesticides according to Ph. Eur 2.8.13	< LOQ mg/kg	Compliant
Organophosphorus pesticides			< LOQ mg/kg	Compliant
Pyrethroids			< LOQ mg/kg	Compliant
Propachlor		≤ 0.1 mg/kg	< LOQ mg/kg	Compliant
Aflatoxin B1[5]	AFL/01/2012/1	≤ 5 µg/kg	< 1.0 µg/kg	Compliant
Aflatoxin (sum um of B1+B2+G1+G2)[5]	AFL/01/2012/1	≤ 10 µg/kg	<LOQ µg/kg	Compliant
Ochratoxin A[5]	PB-456 ed. I of 15.10.2021	≤ 10 µg/kg	< 0.25 µg/kg	Compliant
Heavy metals[3]:				
Arsenic	PN-EN 15763:2010	≤ 1.0 mg/kg	0.13 ± 0.02 mg/kg	Compliant
Cadmium	PN-EN 15763:2010	≤ 0.4 mg/kg	0.018 ± 0.004 mg/kg	Compliant
Lead	PN-EN 15763:2010	≤ 1.0 mg/kg	0.39 ± 0.10 mg/kg	Compliant
Mercury	PN-EN 15763:2010	≤ 0.2 mg/kg	0.012 ± 0.002 mg/kg	Compliant

[5] Tested in third part labaratory

We declare that this product is **free** from microbiological and chemical contaminants including residual solvents, microbiological contamination, pesticides, aflatoxins and heavy metals. We ensure this by performing testing on all raw materials used and periodical testing on final products for self control. This report is applicable only to the batch that is written on report. This report cannot be reproduced partially without a prior written consent of UAB Biosyyd, and is restricted exclusively to the results and statements presented in the original copy of the Report.