



CERTIFICATE OF ANALYSIS No. 20241018-M4206

Product Information		Sample Information	
Product Name:	Bulk 90% Broad Spectrum CBN Distillate	Sample Received ¹ :	2024-10-01
Product Type:	Others (solid form)	Sample Condition:	Suitable
Product ID:	E00220	Analysis Completed:	2024-10-18
Batch No.:	Batch 1115	Certificate Dated:	2024-10-18
Manufacture Date:	2024-05-16	Expire/Retest date:	18 months

RESULTS

Compliance with specification TS-P-D-BS-N-90-F

Parameter	Method	Requirement/ Limits		Results ²	Compliant / Non-Compliant ³	
Appearance	Visual inspection	Amber semisolid mass		Amber semisolid mass	Compliant	
Smell	Sensory analysis	Specific, characteristic smell		Specific, characteristic smell	Compliant	
Compound Name:		LOQ,%	LOD,%			
CBDV - Cannabidivarin	HPLC-MS/MS	0.00001	0.000001	≥ 0.01 %	0.0040 ± 0.0006%	Compliant
CBDA - Cannabidiolic acid	HPLC-MS/MS	0.00001	0.000001	N/A	0.000017 ± 0.000003%	N/A
CBG - Cannabigerol	HPLC-MS/MS	0.00001	0.000001	≥ 0.01 %	2.93 ± 0.44%	Compliant
CBD - Cannabidiol	HPLC-MS/MS	0.00001	0.000001	≥ 0.01 %	1.95 ± 0.29%	Compliant
THCV - Tetrahydrocannabivarin	HPLC-MS/MS	0.00001	0.000001	N/A	< 0.000010%	N/A
CBN - Cannabinol	HPLC-MS/MS	0.00001	0.000001	≥ 90.00 %	88.53 ± 13.28%	Compliant
CBC - Cannabichromene	HPLC-MS/MS	0.00001	0.000001	≥ 0.01 %	0.17 ± 0.03%	Compliant
THC - Δ8-Tetrahydrocannabinol	HPLC-MS/MS	0.00001	0.000001	Not Detected ⁴	Not Detected ⁴	Compliant
THC - Δ9-Tetrahydrocannabinol	HPLC-MS/MS	0.00001	0.000001	Not Detected ⁴	Not Detected ⁴	Compliant
THCA - Δ9-Tetrahydrocannabinolic acid	HPLC-MS/MS	0.00001	0.000001	Not Detected ⁴	Not Detected ⁴	Compliant
Total THC (Δ8-Tetrahydrocannabinol, Δ9-Tetrahydrocannabinol, Δ9-Tetrahydrocannabinolic acid)	HPLC-MS/MS	0.00001	0.000001	< 1 ppm	Not Detected ⁴	Compliant
CBL - Cannabicyclol	HPLC-MS/MS	0.00001	0.000001	N/A	0.0032 ± 0.0005%	N/A

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Parameter	Method	Requirement/ Limits		Results	Compliant / Non-Compliant ³	
Compound Name:		LOQ,%	LOD,%			
Alpha-Pinene, %	GC-FID Terpenes	0.01	0.001	N/A	0.211 %	N/A
Camphene, %		0.01	0.001	N/A	ND %	N/A
(-)-beta-pinene, %		0.01	0.001	N/A	0.015 %	N/A
beta-myricene, %		0.01	0.001	N/A	0.219 %	N/A
delta-3-carene, %		0.01	0.001	N/A	ND %	N/A
alpha-terpinene, %		0.01	0.001	N/A	ND %	N/A
Limonene, %		0.01	0.001	N/A	0.458 %	N/A
p-Cymene, %		0.01	0.001	N/A	ND %	N/A
Ocimene, %		0.01	0.001	N/A	ND %	N/A
gamma-terpinene, %		0.01	0.001	N/A	ND %	N/A
Terpinolene, %		0.01	0.001	N/A	ND %	N/A
Linalool, %		0.01	0.001	N/A	0.076 %	N/A
(-)-isopulegol, %		0.01	0.001	N/A	ND %	N/A
Geraniol, %		0.01	0.001	N/A	ND %	N/A
beta-Caryophyllene, %		0.01	0.001	N/A	0.377 %	N/A
alpha-Humulene, %		0.01	0.001	N/A	ND %	N/A
Nerolidol, %		0.01	0.001	N/A	ND %	N/A
(-)-guaiaol, %		0.01	0.001	N/A	ND %	N/A
(-)-alpha-bisabol, %		0.01	0.001	N/A	ND %	N/A
Nerol, %		0.01	0.001	N/A	ND %	N/A
alpha-phylandrene, %		0.01	0.001	N/A	0.026 %	N/A

THE END OF THE CERTIFICATE

Authorized by:

Quality Control Analyst

2024-10-18

Approved by:

Senior Quality Control Analyst

2024-10-18

¹Samples were delivered by the Client.²HPLC-MS/MS tests were performed and provided by National Food and Veterinary Risk Assessment Institute (NFVRAI) (J. Kairiūkščio g. 10, LT-08411, Vilnius, Lithuania). Tests performed in an accredited laboratory according to ISO/IEC 17025, Nr. LA.01.139³Given expanded measurement uncertainty was estimated for the coverage factor k = 2 at 95 % confidence level. Sampling uncertainty has not been taken into consideration.⁴<LOD of 0.000001%

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PRODUCT CONTAMINATION REPORT

Product Information		Sample Information	
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RESULTS

Compliance with specification TS-P-D-BS-N-90-F

Parameter	Method	Requirement/ Limits	Results	Compliant / Non-Compliant ³
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 ¹ :				
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 × 10 ¹ CFU/g	Compliant
Enumeration of moulds	PN-ISO 21527-2:2009	≤ 10 ³ CFU/g	< 1.0 × 10 ¹ CFU/g	Compliant
Specified microorganisms:				
Enumeration of <i>Bacillus Cereus</i>	PN-EN ISO 7932:2005	≤ 10 ³ CFU/g	< 1.0 × 10 ¹ CFU/g	Compliant
Enumeration of coagulase-positive staphylococci (<i>Staphylococcus aureus</i> and other species)	PN-EN ISO 6888-1:2001+A1:2004	≤ 10 ³ CFU/g	< 1.0 × 10 ¹ CFU/g	Compliant
Detection of <i>Salmonella</i> spp.	PN-EN ISO 6579-1:2017-04	Not Detected in 25 g	Not Detected in 25 g	Compliant
Pesticides ¹ :				
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 B ₁ ¹	AFL/01/2012/1	≤ 5 µg/kg	< 1.0 µg/kg	Compliant
Aflatoxin (sum of B ₁ +B ₂ +G ₁ +G ₂) ¹	AFL/01/2012/1	≤ 10 µg/kg	< LOQ µg/kg	Compliant
Ochratoxin A ¹	PB-456 ed. I of 15.10.2021	≤ 10 µg/kg	< 0.25 µg/kg	Compliant
Heavy metals ¹ :				
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

¹ Test performed on Cannabis Sativa L. raw material in Third party laboratoryAuthorized by: Quality Control Analyst
Approved by: Senior Quality Control Analyst2024-10-18
2024-10-18

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.