Certificate of Analysis

P.O.L.

License: Personal use
Unit Size: 1 bottle 60 ml

Sample Received: 01/30/2024
Report Created: 02/08/2024

Sample: Full Spectrum CBD Large Animal Pet Tincture

Sample Description: Organic Hempseed Oil

Total THC mg/ Unit*	Total CBD mg/ Unit*	Total Cannabinoids mg/ Unit
<LOQ	1326.65	1432.38

Cannabinoid	LOQ %	mg/ml	mg/unit
CBD	0.001	22.111	1326.65
CBG	0.001	0.199	11.92
CBDV	0.001	0.165	9.91
THC Acid	0.001	<LOQ	<LOQ
CBG Acid	0.001	<LOQ	<LOQ
THCV Acid	0.001	<LOQ	<LOQ
CBC-Acid	0.001	<LOQ	<LOQ
Δ9-THC	0.001	0.790	47.39
CBD Acid	0.001	0.104	6.25
CBC	0.001	0.321	19.25
CBDV Acid	0.001	<LOQ	<LOQ
CBL	0.001	<LOQ	<LOQ
CBN	0.001	0.184	11.01
CBN Acid	0.001	<LOQ	<LOQ
THCV	0.001	<LOQ	<LOQ
Δ10-THC	0.001	<LOQ	<LOQ
Δ8-THC	0.001	<LOQ	<LOQ

Method: HPLC-DAD. LOQ = Limit of Quantitation. Density of Hempseed Oil: 0.92g/ml. Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. ***When reporting totals, acidic cannabinoids are multiplied by 0.877 to account for loss of mass from decarboxylation upon heating; therefore, this is the POTENTIAL amount upon complete decarboxylation from smoking/ vaping.**

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Denise Johnson
Head of Laboratory

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Sample Description: Organic Hempseed Oil

MICROBIALS

Microbial Parameters	Permissible Limit	LOQ/ LOD	Results	Status
	CFU/g	CFU/g	CFU/g	
Total Aerobic Bacteria	1000	10	**ND**	PASS
Total Yeast/ Mold	100	10	**ND**	PASS
E. coli	Absent in 1ml	1	**ND**	PASS

Method: Petrifilm Plate method for enumerations; Quantitative PCR for presence/ absence assays. Criteria: Eur. Ph. 5.1.4. Oral Use Limits. Absence of E. coli in 1g or 1 ml.
LOQ = Limit of Quantitation; CFU = Colony Forming Units. The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.

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HEAVY METALS

Analyte	Permissible Limit	LOQ	Results	Status
	ppm	ppm	ppm	
Arsenic	1.5	0.0001	**<LOQ**	PASS
Cadmium	0.5	0.0001	**<LOQ**	PASS
Lead	0.5	0.0001	**<LOQ**	PASS
Mercury	3.0	0.0001	**0.0071**	PASS

Method: ICP-MS. Criteria: ICH guideline Q3D (R1) on elemental impurities Table A.2.2: Oral Use Limits. PPM = Parts per Million; LOQ = Limit of Quantitation; LOD = Limit of Detection. The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.

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PESTICIDES

Analyte	Permissible Limit	LOQ	Results	Status	Analyte	Permissible Limit	LOQ	Results	Status
	ppm	ppm	ppm			ppm	ppm	ppm	
Abamectin	0.25	0.25	<LOQ	PASS	Cyprodinil	0.25	0.25	<LOQ	PASS
Acephate	0.05	0.05	<LOQ	PASS	Daminozide	0.10	0.10	<LOQ	PASS
Acequinocyl	0.05	0.05	<LOQ	PASS	Deltamethrin	1.00	1.00	<LOQ	PASS
Acetamiprid	0.10	0.10	<LOQ	PASS	Diazinon	0.02	0.02	<LOQ	PASS
Aldicarb	1.00	1.00	<LOQ	PASS	Dichlorvos	0.10	0.10	<LOQ	PASS
Allethrin	0.20	0.20	<LOQ	PASS	Dimethoate	0.02	0.02	<LOQ	PASS
Azadirachtin	1.00	1.00	<LOQ	PASS	Dimethomorph	0.05	0.05	<LOQ	PASS
Azoxystrobin	0.02	0.02	<LOQ	PASS	Dinotefuran	0.10	0.10	<LOQ	PASS
Benzovindiflupyr	0.02	0.02	<LOQ	PASS	Dodemorph	0.05	0.05	<LOQ	PASS
Bifenazate	0.05	0.05	<LOQ	PASS	Endosulfan Sulfate	0.50	0.50	<LOQ	PASS
Bifenthrin	1.00	1.00	<LOQ	PASS	Endosulfan-alpha	0.20	0.20	<LOQ	PASS
Boscalid	0.02	0.02	<LOQ	PASS	Endosulfan-beta	0.50	0.50	<LOQ	PASS
Buprofezin	0.02	0.02	<LOQ	PASS	Ethoprophos	0.02	0.02	<LOQ	PASS
Carbaryl	0.05	0.05	<LOQ	PASS	Etofenprox	0.05	0.05	<LOQ	PASS
Carbofuran	0.02	0.02	<LOQ	PASS	Etoxazole	0.02	0.02	<LOQ	PASS
Chlorantraniliprole	0.02	0.02	<LOQ	PASS	Etridiazol	0.03	0.03	<LOQ	PASS
Chlorphenapyr	0.10	0.10	<LOQ	PASS	Fenoxycarb	0.02	0.02	<LOQ	PASS
Chlorpyrifos	0.04	0.04	<LOQ	PASS	Fenpyroximate	0.02	0.02	<LOQ	PASS
Clofentezine	0.02	0.02	<LOQ	PASS	Fensulfothion	0.02	0.02	<LOQ	PASS
Clothianidin	0.05	0.05	<LOQ	PASS	Fenthion	0.02	0.02	<LOQ	PASS
Coumaphos	0.02	0.02	<LOQ	PASS	Fenvalerate	0.10	0.10	<LOQ	PASS
Cyantranilipole	0.02	0.02	<LOQ	PASS	Fipronil	0.06	0.06	<LOQ	PASS
Cyfluthrin	1.00	1.00	<LOQ	PASS	Flonicamid	0.05	0.05	<LOQ	PASS
Cypermethrin	1.00	1.00	<LOQ	PASS	Fludioxonil	0.02	0.02	<LOQ	PASS

Method: LC-MS/MS Dual Ion Source. ***Limits are set by Health Canada for Cannabis Concentrates***. PPM = Parts per Million; LOQ = Limit of Quantitation.
The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. ND = Not Detectable, NR = Not Reported, NT = Not Tested

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Sample Description: Organic Hempseed Oil

PESTICIDES

Analyte	Permissible Limit	LOQ	Results	Status		Analyte	Permissible Limit	LOQ	Results	Status
	ppm	ppm	ppm				ppm	ppm	ppm	
Fluopyram	0.02	0.02	<LOQ	PASS		Piperonyl Butoxide	0.25	0.25	<LOQ	PASS
Hexythiazox	0.01	0.01	<LOQ	PASS		Pirimicarb	0.02	0.02	<LOQ	PASS
Imazalil	0.05	0.05	<LOQ	PASS		Prallethrin	0.05	0.05	<LOQ	PASS
Imidacloprid	0.02	0.02	<LOQ	PASS		Propiconazole	0.10	0.10	<LOQ	PASS
Iprodione	1.00	1.00	<LOQ	PASS		Propoxur	0.02	0.02	<LOQ	PASS
Kinoprene	0.50	0.50	<LOQ	PASS		Pyraclostrobin	0.02	0.02	<LOQ	PASS
Kresoxim-methyl	0.02	0.02	<LOQ	PASS		Pyrethrins	0.05	0.05	<LOQ	PASS
Malathion	0.02	0.02	<LOQ	PASS		Pyridaben	0.05	0.05	<LOQ	PASS
Metalaxyl	0.02	0.02	<LOQ	PASS		Resmethrin	0.10	0.10	<LOQ	PASS
Methiocarb	0.02	0.02	<LOQ	PASS		Spinetoram	0.02	0.02	<LOQ	PASS
Methomyl	0.05	0.05	<LOQ	PASS		Spinosad	0.10	0.10	<LOQ	PASS
Methoprene	2.00	2.00	<LOQ	PASS		Spirodiclofen	0.25	0.25	<LOQ	PASS
Mevinphos	0.05	0.05	<LOQ	PASS		Spiromesifen	3.00	3.00	<LOQ	PASS
MGK-264	0.05	0.05	<LOQ	PASS		Spirotetramat	0.10	0.10	<LOQ	PASS
Myclobutanil	0.02	0.02	<LOQ	PASS		Spiroxamine	0.10	0.10	<LOQ	PASS
Naled	0.20	0.20	<LOQ	PASS		Tebuconazole	0.05	0.05	<LOQ	PASS
Novaluron	0.05	0.05	<LOQ	PASS		Tebufenozide	0.02	0.02	<LOQ	PASS
Oxamyl	3.00	3.00	<LOQ	PASS		Teflubenzuron	0.05	0.05	<LOQ	PASS
Paclobutrazol	0.02	0.02	<LOQ	PASS		Tetramethrin	0.10	0.10	<LOQ	PASS
Parathion Methyl	0.05	0.05	<LOQ	PASS		Tetrachlorvinphos	0.02	0.02	<LOQ	PASS
PCNB	0.02	0.02	<LOQ	PASS		Thiacloprid	0.02	0.02	<LOQ	PASS
Permethrin	0.50	0.50	<LOQ	PASS		Thiamethoxam	0.02	0.02	<LOQ	PASS
Phenothrin	0.05	0.05	<LOQ	PASS		Thiophanate-Methyl	0.05	0.05	<LOQ	PASS
Phosmet	0.02	0.02	<LOQ	PASS		Trifloxystrobin	0.02	0.02	<LOQ	PASS

Method: LC-MS/MS Dual Ion Source. ***Limits are set by Health Canada for Cannabis Concentrates***. PPM = Parts per Million; LOQ = Limit of Quantitation.
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Sample Description: Organic Hempseed Oil

RESIDUAL SOLVENTS

Analyte	Permissible Limit ppm	LOQ ppm	Result ppm	Status
Acetic acid	≤ 5000	500	<LOQ	PASS
Acetone	≤ 5000	50	<LOQ	PASS
Anisole	≤ 5000	50	<LOQ	PASS
1-Butanol	≤ 5000	50	<LOQ	PASS
2-Butanol	≤ 5000	50	<LOQ	PASS
Butane (sum of n- and iso-)	≤ 5000	50	<LOQ	PASS
Butyl acetate	≤ 5000	50	<LOQ	PASS
Tert-Butyl methyl ether	≤ 5000	50	<LOQ	PASS
Dimethyl sulfoxide	≤ 5000	50	<LOQ	PASS
Ethanol	≤ 5000	50	<LOQ	PASS
Ethyl acetate	≤ 5000	50	<LOQ	PASS
Ethyl ether	≤ 5000	50	<LOQ	PASS
Ethyl formate	≤ 5000	50	<LOQ	PASS
Formic acid	≤ 5000	500	<LOQ	PASS
Heptane	≤ 5000	50	<LOQ	PASS
Isobutyl acetate	≤ 5000	50	<LOQ	PASS
Isopropyl acetate	≤ 5000	50	<LOQ	PASS
Methyl acetate	≤ 5000	50	<LOQ	PASS
3-Methyl-1-butanol	≤ 5000	50	<LOQ	PASS
Methyl ethyl ketone	≤ 5000	50	<LOQ	PASS
2-Methyl-1-propanol	≤ 5000	50	<LOQ	PASS
Pentane	≤ 5000	50	<LOQ	PASS
1-Pentanol	≤ 5000	50	<LOQ	PASS
1-Propanol	≤ 5000	50	<LOQ	PASS
2-Propanol (Isopropanol)	≤ 5000	50	<LOQ	PASS
Propane	≤ 5000	50	<LOQ	PASS
Propyl acetate	≤ 5000	50	<LOQ	PASS
Triethylamine	≤ 5000	500	<LOQ	PASS

Method: GC-FID. Criteria: ICH guideline Q3C (R6) on impurities: guideline for residual solvents; Table 3, Class 3 Residual Solvents. LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. ND = Not Dete

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