

Certificate of Analysis

Sample # 2022-1947
Lot # OTO-CDTF-PK-2


Client: BioScision Pharma Inc.
26 Henlow Bay Winnipeg, MB
R3Y 1G4
Attn: Connor Macaulay
Sample Type: Formulated Distillate
Lot Number: OTO-CDTF-PK-2
BioScision sample # 2022-1947
Issued By: Dr. Ryan Lillico, PhD
Nicole Wilson, MSc

Licence Number LIC-OP005U87P5-2020
Contact - Email connorm@bioscision.com
- Phone (204) 287-7800
Sample Name OTO-CDTF-PK-2
Date Received 23-Aug-2022
Date of Analysis 23-29-Aug-2022
Date of Report 30-Aug-2022

Report Summary

Total THC	41.72 % w/w	Heavy Metals	Within Specification
Total CBD	41.19 % w/w	Pesticides	Not Tested
Total Cannabinoids	87.60 % w/w	Aflatoxins	Not Detected
Total Terpenes	6.530 % w/w	Microbiology	Not Detected
		Residual Solvents	Not Detected

Head of Lab Reviewed and Released By:

  26 Henlow Bay Winnipeg, MB Canada R3Y 1G4	Printed Name	Dr. Brent Guppy
	Title	Chief Scientific Officer, Head of Laboratories
	Signature	
	Date	30-Aug-2022

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Test	Method	Specification		Result		
Cannabinoid Potency						
		LOD (%w/w)	LOQ (%w/w)	Cannabinoid	mg/g	%w/w
THC / CBD	SOP-QCA-012 HPLC-UV	0.05	0.1	THC	417.2	41.72
		0.05	0.1	THCA	<1.0	<0.10
Other Cannabinoids		0.05	0.1	CBD	400.2	40.02
		0.05	0.1	CBDA	13.3	1.33
		0.05	0.1	CBDV	3.4	0.34
		0.05	0.1	CBGA	1.7	0.17
		0.05	0.1	CBG	11.1	1.11
		0.05	0.1	THCV	1.4	0.14
		0.05	0.1	CBN	4.1	0.41
Total Cannabinoids		0.05	0.1	CBC	23.6	2.36
				Total THC	417.2	41.72
				Total CBD	411.9	41.19
				Total Cannabinoid	876.0	87.60
		Total THC = ([THCA] × 0.877) + [THC]				
		Total CBD = ([CBDA] × 0.877) + [CBD]				
Test	Method	Specification		Result		
Terpene Potency						
		LOD (%w/w)	LOQ (%w/w)	Terpene	%w/w	
Terpenes	SOP-QCA-009 HS-GCMS	0.002	0.005	Beta-Myrcene	2.554	
		0.002	0.005	Terpinolene	1.174	
		0.002	0.005	D-Limonene	0.660	
		0.002	0.005	Geraniol	0.536	
		0.002	0.005	beta-Ocimine	0.449	
		0.002	0.005	alpha-pinene	0.322	
		0.002	0.005	beta-Pinene	0.221	
		0.002	0.005	p-Cymene	0.194	
		0.002	0.005	Caryophyllene	0.178	
		0.002	0.005	Linalool	0.110	
		0.002	0.005	Humelene	0.048	
		0.002	0.005	Geraniol	0.042	
		0.002	0.005	gamma-Terpinene	0.028	
		0.002	0.005	Camphene	0.014	
		0.002	0.005	Guaiol	<0.005	
		0.002	0.005	trans-Nerolidol	<0.005	
		0.002	0.005	Neoisopulegol	<0.002	
		0.002	0.005	alpha-Terpinene	<0.002	
		0.002	0.005	alpha-Bisabolol	<0.002	
				Total	6.530	

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Test	Method	Specification			Result	
Microbiology						
E. coli	SOP-QCA-017 AOAC	Absent in 1 gram or 1 mL USP <1111>			Absent in 1 gram	
Salmonella spp	SOP-QCA-017 AOAC	Absent in 1 gram or 1 mL USP <1111>			Absent in 1 gram	
S. aureus	SOP-QCA-017 AOAC	Absent in 1 gram or 1 mL USP <1111>			Absent in 1 gram	
P. aeruginosa	SOP-QCA-017 AOAC	Absent in 1 gram or 1 mL USP <1111>			Absent in 1 gram	
	SOP-QCA-017 AOAC	LOD (CFU/g)	LOQ (CFU/g)	RL (CFU/g)	Enumeration	CFU/g
Total Aerobic (TAMC)	USP <1111>	10	50	100	TAMC	< 10
Total Yeast/Mold (TYMC)		10	50	10	TYMC	< 10
Bile Tolerant Gram Negative Bacteria		10	50	Absent	BTGN	Absent
Metals						
		LOD (ppm)	LOQ (ppm)	RL (ppm)	Metal	ppm
Heavy Metals	SOP-QCA-008 ICP-OES USP <233>, <232> (Limit)	0.025	0.050	0.200	Arsenic (As)	0.118
		0.004	0.013	0.100	Mercury (Hg)	<0.004
		0.063	0.125	0.500	Lead (Pb)	<0.125
		0.008	0.025	0.200	Cadmium (Cd)	<0.008
Toxins						
		LOD (ppm)	LOQ (ppm)	RL (ppm)	Aflatoxin	ppm
Aflatoxins	SOP-QCA-011 LC-MSMS E.P. 2.8.18	0.002	0.005	0.002	B1	<0.002
		0.002	0.020	0.004	Total (B1, B2, G1, G2)	<0.002

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Test Method SOP-QCA-016 HS-GCMS USP <467>	LOD ppm	LOQ ppm	RL ppm	Result ppm	Test Method SOP-QCA-016 HS-GCMS USP <467>	LOD ppm	LOQ ppm	RL ppm	Result ppm
Residual Solvents									
Acetone	50	500	5000	<50	Isobutanol	50	500	5000	<50
Anisole	50	500	5000	<50	Isobutyl acetate	50	500	5000	<50
Iso-Butane	50	500	5000	<50	Isopropyl acetate	50	500	5000	<50
n-Butane	50	500	5000	<50	Methyl acetate	50	500	5000	<50
1-Butanol	50	500	5000	<50	3-Methyl-1-butanol	50	500	5000	<50
2-Butanol	50	500	5000	<50	4-Methyl-2-pentanone	50	500	5000	<50
2-Butanone	50	500	5000	<50	Methyl-tert-butyl ether	50	500	5000	<50
Butyl acetate	50	500	5000	<50	(C5) n-Pentane	50	500	5000	<50
Diethyl ether	50	500	5000	<50	1-Pentanol	50	500	5000	<50
Dimethyl sulfoxide	50	500	5000	<50	Propane	50	500	5000	<50
Ethanol	50	500	5000	<50	1-Propanol	50	500	5000	<50
Ethyl acetate	50	500	5000	<50	2-Propanol	50	500	5000	<50
Ethyl formate	50	500	5000	<50	Propyl acetate	50	500	5000	<50
(C7) n-Heptane	50	500	5000	<50					