

# Certificate of Analysis



Sample # 2022-0365  
Lot # CT-BDTF-PK-16

**Client:** BioScision Pharma Inc.  
26 Henlow Bay Winnipeg, MB  
R3Y 1G4  
**Attn:** Connor Macaulay  
**Sample Type:** Formulated Distillate  
**Lot Number:** CT-BDTF-PK-16  
**BioScision sample #** 2022-0365  
**Analyst:** Dr. Ryan Lillico, Amanda Righolt  
John Daley, Charles Balcaen

**Licence Number** LIC-OP005U87P5-2020  
**Contact - Email** connorm@bioscision.com  
**- Phone** (204) 287-7800  
**Sample Name** Cow Tipper  
**Date Received** 7-April-2022  
**Date of Analysis** 7-11 April 2022  
**Date of Report** 12-April-2022

## Report Summary

Total THC	85.47 % w/w	Heavy Metals	PASS
Total CBD	0.19 % w/w	Aflatoxins	PASS
Total Cannabinoids	90.65 % w/w	Microbiology	PASS
Total Terpenes	3.941 % w/w	Residual Solvents	PASS

## 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	12-April-2022

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Test	Method	Specification		Result		
<b>Cannabinoid Potency</b>						
		LOD (%w/w)	LOQ (%w/w)	Cannabinoid	mg/g	%w/w
THC / CBD	SOP-QCA-012 HPLC-UV	0.05	0.1	THC	854.7	85.47
		0.05	0.1	THCA	<0.5	<0.05
Other Cannabinoids		0.05	0.1	CBD	1.9	0.19
		0.05	0.1	CBDA	<0.5	<0.05
		0.05	0.1	CBDV	<0.5	<0.05
		0.05	0.1	CBGA	1.6	0.16
		0.05	0.1	CBG	24.9	2.49
		0.05	0.1	THCV	6.7	0.67
		0.05	0.1	CBN	5.7	0.57
		0.05	0.1	CBC	11.0	1.10
Total Cannabinoids				Total THC	854.7	85.47
				Total CBD	1.9	0.19
				Total Cannabinoid	906.5	90.65
		Total THC = ([THCA] × 0.877) + [THC] Total CBD = ([CBDA] × 0.877) + [CBD]				
<b>Terpene Potency</b>						
		LOD (%w/w)	LOQ (%w/w)	Terpene	%w/w	
Terpenes	SOP-QCA-009 HS-GCMS	0.002	0.005	beta-Myrcene	1.139	
		0.002	0.005	Humelene	1.063	
		0.002	0.005	Caryophyllene	0.791	
		0.002	0.005	D-Limonene	0.257	
		0.002	0.005	alpha-pinene	0.233	
		0.002	0.005	beta-Pinene	0.154	
		0.002	0.005	Linalool	0.146	
		0.002	0.005	3-Carene	0.076	
		0.002	0.005	trans-Nerolidol	0.053	
		0.002	0.005	alpha-Terpinene	0.008	
		0.002	0.005	Geraniol	0.005	
		0.002	0.005	Guaiol	0.005	
		0.002	0.005	p-Cymene	<0.005	
		0.002	0.005	gamma-Terpinene	<0.005	
		0.002	0.005	Neoisopulegol	<0.005	
		0.002	0.005	Camphene	<0.005	
		0.002	0.005	beta-Ocimine	<0.002	
		0.002	0.005	Terpinolene	<0.002	
		0.002	0.005	alpha-bisabolol	<0.002	
Total					3.941	

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Test	Method	Specification			Result	
<b>Identity</b>						
Appearance Visual	SOP-QCA-014	The sample is visually inspected to ensure it is essentially free of hair, insects and other solids.			Formulated Distillate inspected and free of foreign material.	
<b>Microbiology</b>						
<i>E. coli</i>	SOP-QCA-017 AOAC	Absent in 1 gram or 1 mL USP <1111>			Absent in 1 gram	
<i>Salmonella spp</i>	SOP-QCA-017 AOAC	Absent in 1 gram or 1 mL USP <1111>			Absent in 1 gram	
<i>P. aeruginosa</i>	SOP-QCA-017 AOAC	Absent in 1 gram or 1 mL USP <1111>			Absent in 1 gram	
<i>S. aureus</i>	SOP-QCA-017 AOAC	Absent in 1 gram or 1 mL USP <1111>			Absent in 1 gram	
		LOD (CFU/g)	LOQ (CFU/g)	RL (CFU/g)	Enumeration	CFU/g
Total Aerobic (TAMC)	SOP-QCA-017 AOAC	10	50	100	TAMC	< 10
Total Yeast/Mold (TYMC)	USP <1111>	10	50	10	TYMC	< 10
Bile Tolerant Gram Negative Bacteria		10	50	Absent	BTGN	Absent
<b>Metals</b>						
		LOD (ppm)	LOQ (ppm)	RL (ppm)	Metal	ppm
Heavy Metals	SOP-QCA-008	0.025	0.050	0.200	Arsenic (As)	0.121
	ICP-OES	0.004	0.013	0.100	Mercury (Hg)	<0.004
	USP <233>, <232> (Limit)	0.063	0.125	0.500	Lead (Pb)	<0.125
		0.008	0.025	0.200	Cadmium (Cd)	<0.008
<b>Toxins</b>						
		LOD (ppm)	LOQ (ppm)	RL (ppm)	Aflatoxin	ppm
Aflatoxins	SOP-QCA-011	0.002	0.005	0.002	B1	<0.002
	LC-MSMS E.P. 2.8.18	0.002	0.020	0.004	Total (B1, B2, G1, G2)	<0.002
<b>Residual Solvents</b>						
		LOD (ppm)	LOQ (ppm)	RL (ppm)	Solvent	ppm
Residual Solvents	SOP-QCA-016	50	500	5000	2-Propanol	<50
	HS-GCMS	50	500	5000	n-butane	<50
	USP <467>	50	500	5000	Class 3 (Mix A)	<50

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### **Definitions of Abbreviations**

LOD: Limit of Detection

LOQ: Limit of Quantification

ppm: Parts per Million

CFU: Colony Forming Unit

% w/w : Percent of Weight

RL: Reporting Limit