1 es

Certificate ID: 48972 (Prelim)

Client Sample ID: CBD Isolate

Lot Number:

Matrix: Concentrates/Extracts - Isolate



Shaman Botanical 2405 Southwest Blvd Kansas City, MO 64108

Attn: Jade Mitchell

Authorization:

Jon Podgorni, Lab Manager

Signature:

Jon Podgorni

Date:

3/5/2019





Received: 2/25/19



The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2005. I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

CN: Cannabinoid Profile & Potency [WI-10-17 & WI-10-17-01]

Analyst: JSG

Test Date: 2/27/2019

The client sample was analyzed for plant-based cannabinoids by Liquid Chromatography (LC). The collected data was compared to data collected for certified reference standards at known concentrations.

48972-CN

ID	Weight %	Conc.			
D9-THC	ND	ND			
THCV	ND	ND			
CBD	99.27 wt %	992.65 mg/g			
CBDV	0.23 wt %	2.28 mg/g			
CBG	ND	ND			
CBC	0.01 wt %	0.11 mg/g			
CBN	ND	ND			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	ND	ND			
D8-THC	ND	ND			
exo-THC	ND	ND			
Total	99.50 wt%	995.04 mg/g	0%	Cannabinoids (wt%)	99.3%
Max THC	- 1	-			
Max CBD	99.27 wt%	992.65 mg/g			

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: $Max THC = (0.877 \times THCA) + THC$. This calculation does not include other cannabinoid isomers (eg. D8-THC and exo-THC). ND = None detected above the limits of detection (LLD)

MB1: Microbiological Contaminants [WI-10-09] Analyst: MM Test Date: 2/26/2019

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

48972-MB1

Symbol	Analysis	Results	Units	Limits*	Status
AC	Total Aerobic Bacterial Count	<100	CFU/g	10,000 CFU/g	PASS
CC	Total Coliform Bacterial Count	<100	CFU/g	100 CFU/g	PASS
EB	Total Bile Tolerant Gram Negative Count	<100	CFU/g	100 CFU/g	PASS
YM	Total Yeast & Mold	<100	CFU/g	1,000 CFU/g	PASS

Note: All recorded Microbiological tests are within the established limits.

MB2: Pathogenic Bacterial Contaminants [WI-10-10]	Analyst: LabAdmin	Test Date: 2/27/2019
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This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

48972-MB2

Test ID	Analysis	Results	Units	Limits*	Status
48972-ECPT	E. coli (O157)	Negative	NA	Non Detected	PASS
48972-SPT	Salmonella	Negative	NA	Non Detected	PASS

Note: All recorded pathogenic bacteria tests passed.

END OF REPORT