

Certificate ID: **120700**

 Received: **12/18/23**

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**Higher Human Hemp**  
**6000 Dutchmans Lane**  
**Louisville, KY 40205**

 Client Sample ID: **Highdration**

 Lot Number: **1**

 Matrix: **Water Soluble-Powders**

Authorization:

Andrew Aubin, Lab Director

Signature:



Date:

12/22/2023



The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2017. 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: *SD*

 Test Date: *12/19/2023*

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.

**120700-CN**

ID	Weight %	Concentration (mg/g)			
<b>Δ9-THC</b>	<b>0.0922</b>	<b>0.922</b>			
THCV	ND	ND			
CBD	0.494	4.94			
CBDV	<LOQ	<LOQ			
CBG	ND	ND			
CBC	ND	ND			
CBN	0.00373	0.0373			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	ND	ND			
CBDVA	ND	ND			
<b>Δ8-THC</b>	<b>0.00417</b>	<b>0.0417</b>			
exo-THC	ND	ND			
Total	0.594	5.94	0%	Cannabinoids (wt%)	0.494%
Total THC	0.0922	0.922		Limit of Quantitation (LOQ) = 0.00234 wt%	
Total CBD	0.494	4.94		Limit of Detection (LOD) = 0.00078 wt%	

**Ratio of Total CBD to THC 5.4:1**

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 x THCA) + THC. This calculation does not include other cannabinoid isomers (eg. D8-THC and exo-THC). ND=None detected above the limits of detection (LOD), which is one third of Limit of Quantification (LOQ). For values reported as "<LOQ", the estimated value is included in the calculated Total.

**MB1: Microbiological Contaminants [WI-10-09]**

Analyst: SRD

Test Date: 12/18/2023

This sample was analyzed for microbiological contaminants using an automated Most Probable Number (MPN) methodology with cultured enrichments. 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.

**120700-MB1**

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

Recommended limits established by the American Herbal Pharmacopoeia (AHP) monograph for Cannabis Inflorescence [2013], for consumable botanical products, including processed and unprocessed cannabis materials, and solvent-based extracts. All recorded Microbiological tests are within the established limits.

**MB2: Pathogenic Bacterial Contaminants [WI-10-10]**

Analyst: AEH

Test Date: 12/19/2023

This sample was analyzed for pathogenic bacteria using an automated Enzyme Linked Fluorescent Assay (ELFA). 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. Quality control checks are performed monthly by running both a positive and a negative control sample for each pathogen. Reports may not be reproduced except in their entirety.

**120700-MB2**

Test ID	Analysis	Results	Units	Limits*	Status
120700-ECPT	E. coli (O157)	Negative	NA	Non Detected	PASS
120700-SPT	Salmonella	Negative	NA	Non Detected	PASS

Note: All recorded pathogenic bacteria tests passed.

**MY: Mycotoxin Testing [WI-10-05]**

Analyst: KM/RAM

Test Date: 12/22/2023

This sample was analyzed for mycotoxins using an Immunoaffinity based assay (IA). Data was compared to readings from standard reference materials. 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.

**120700-MY**

Test ID	Date	Results	MDL	Limits	Status*
Total Aflatoxin	12/22/2023	< MDL	2 ppb	< 20 ppb	PASS
Total Ochratoxin	12/22/2023	< MDL	3 ppb	< 20 ppb	PASS

**END OF REPORT**