


Certificate ID: **21695**
 Client Sample ID: **Batch #HH6000**
 Matrix: **Concentrates/Extracts - Isolate**
 Date Received: **9/28/2017**



Pur Iso Labs LLC
109 Enterprise Parkway, Suite 204
Boerne, TX 78006
Attn: Austin Ruple

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.

Authorization: Chris Hudalla, Chief Science Officer	Signature: 	Date: 10/2/2017
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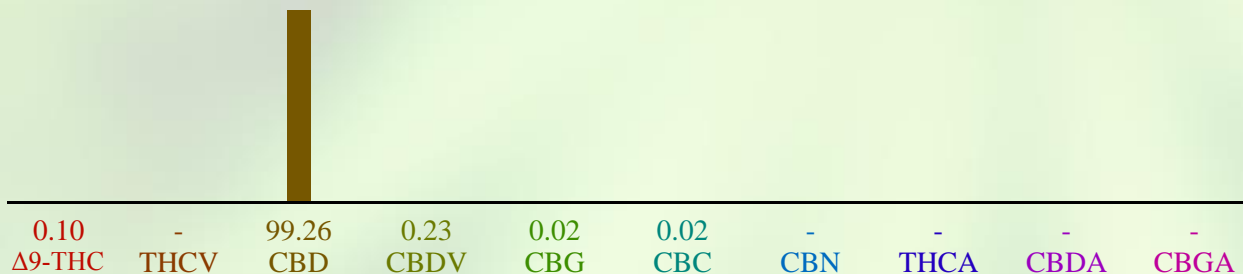
CN: Cannabinoid Profile & Potency [WI-10-04]

Analyst: JFD

Test Date: 9/29/2017

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

21695-CN



ID	Weight %	Conc.
Δ 9-THC	0.10 wt %	0.96 mg/g
THCV	-	-
CBD	99.26 wt %	992.60 mg/g
CBDV	0.23 wt %	2.27 mg/g
CBG	0.02 wt %	0.19 mg/g
CBC	0.02 wt %	0.23 mg/g
CBN	-	-
THCA	-	-
CBDA	-	-
CBGA	-	-
Total	99.62 wt%	996.24 mg/g
Max THC	0.10 wt%	0.96 mg/g
Max CBD	99.26 wt%	992.60 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: $\text{Max THC} = (0.877 \times \text{THCA}) + \text{THC}$.

HM: Heavy Metal Analysis [WI-10-13]

Analyst: JFD

Test Date: 9/29/2017

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21695-HM

Symbol	Metal	Conc. ¹	Units	MDL	Use Limits ²		Units	Status
					All	Ingestion		
As	Arsenic	ND	µg/kg	4	200	1500	µg/kg	PASS
Cd	Cadmium	1	µg/kg	1	200	500	µg/kg	PASS
Hg	Mercury	ND	µg/kg	2	100	1500	µg/kg	PASS
Pb	Lead	ND	µg/kg	2	500	1000	µg/kg	PASS

1) ND = None detected to Lowest Limits of Detection (LLD)

2) MA Dept. of Public Health: Protocol for MMJ and MIPS, Exhibit 4(a) for all products.

3)USP exposure limits based on daily oral dosing of 1g of concentrate for a 110 lb person.

TP: Terpenes Profile [WI-10-08]

Analyst: CJH

Test Date: 10/2/2017

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations. No significant terpenes concentrations were recorded.

21695-TP

Compound	ppm	Quantitative Profile	Compound	ppm	Quantitative Profile
Myrcene			Terpineol		
Pulegone			Camphene		
Isopulegol			Fenchone		
Borneol			B-pinene		
Menthol			Eucalyptol		
Nerolidol-cis			A-terpinene		
G-terpinene			3-carene		
Nerolidol-trans			A-pinene		
A-bisabolol			Citral-1		
Linalool			Citral-2		
Linalyl Acetate			Limonene		
B-caryophyllene			Citronellol		
Caryophyllene Oxide			Geraniol		
Eugenol			Ocimene-2		
Guaiol			Ocimene-1		
Sabinene			A-phellandrene		
Humulene			Terpinolene		
P-cymene					

ppm 0.00 5.00 10.00 0.00 5.00 10.00

Total Terpene: <0.1 wt%

* Indicates qualitative calculation based on recorded peak areas.

VC: Analysis of Volatile Organic Compounds [WI-10-07]*Analyst: CJH**Test Date: 9/30/2017*

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations.

21695-VC

Compound	CAS	Amount ¹	Limit ²	Status
Methanol	67-56-1	ND	3,000 ppm	PASS
Ethanol	64-17-5	ND	5,000 ppm	PASS
3-methylpentane	96-14-0	11 ppm	N/A	-
Hexane	110-54-3	100 ppm	290 ppm	PASS
2-butanone	78-93-3	58 ppm	N/A	-
Cyclohexane	110-82-7	ND	3,880 ppm	PASS

1) ND = None detected above 5 ppm.

2) In ppm, based on USP recommended limits for residual solvents, adopted by the Massachusetts Department of Public Health on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

END OF REPORT