



Certificate ID: **28364**

Client Sample ID: **ISOLATE**

Matrix: **Concentrates/Extracts - Isolate**

Date Received: **3/20/2018**



Alpine Hemp LLC

115 8th St S

Moorhead, MN 56560

Attn: Jordan Erpelding

This test method was performed in accordance with the requirements of ISO/IEC 17025. The sample was provided to the laboratory by the client and tested as received. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

Authorization: Matthew Silva, Chemical Engineer	Signature: 	Date: 3/27/2018
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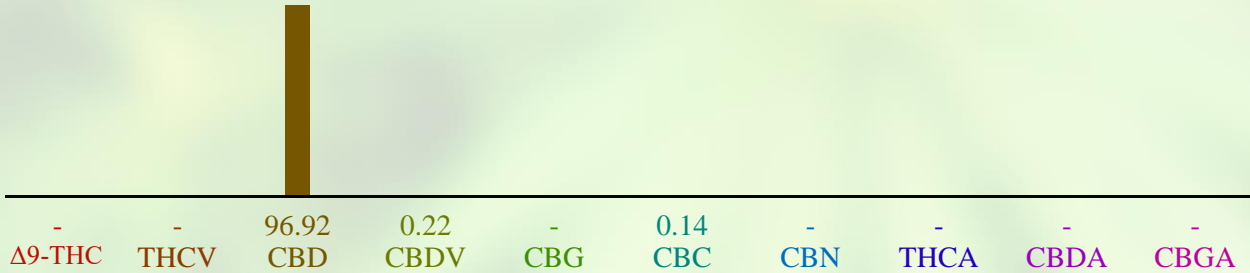
CN: Cannabinoid Profile & Potency [WI-10-04]

Analyst: **JDP**

Test Date: **3/26/2018**

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.

28364-CN



ID	Weight %	Conc.
Δ9-THC	ND	ND
THCV	ND	ND
CBD	96.92 wt %	969.20 mg/g
CBDV	0.22 wt %	2.23 mg/g
CBG	0.01 wt %	0.05 mg/g
CBC	0.14 wt %	1.35 mg/g
CBN	ND	ND
THCA	ND	ND
CBDA	ND	ND
CBGA	ND	ND
Total	97.28 wt%	972.83 mg/g
Max THC	-	-
Max CBD	96.92 wt%	969.20 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 x THCA) + THC. ND = None detected above the limits of detection (LLD)