

Certificate ID: **28370**

 Client Sample ID: **CJ 300 OLD**

 Matrix: **Concentrates/Extracts - Glycerin**

 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]

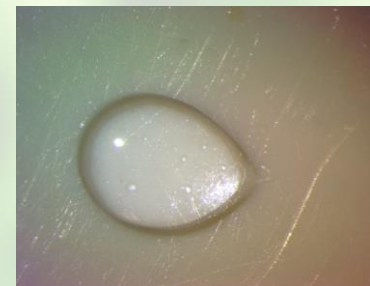
 Analyst: **JDP**

 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.

28370-CN


ID	Weight %	Conc.
Δ9-THC	ND	ND
THCV	ND	ND
CBD	1.45 wt %	17.58 mg/mL
CBDV	0.00 wt %	0.04 mg/mL
CBG	ND	ND
CBC	0.00 wt %	0.01 mg/mL
CBN	ND	ND
THCA	ND	ND
CBDA	ND	ND
CBGA	ND	ND
Total	1.46 wt%	17.63 mg/mL
Max THC	-	-
Max CBD	1.45 wt%	17.58 mg/mL



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: $\text{Max THC} = (0.877 \times \text{THCA}) + \text{THC}$. ND = None detected above the limits of detection (LLD)