

## CERTIFICATE OF ANALYSIS

**Project:** Industrial Hemp  
**Order ID:** 2018000345

**Customer ID:** 54015735  
**Customer Name:** Donna Myers

**Harvest/Extract Lot:**  
**Harvest/Extract Date:**

**Cultivar (Strain):** Hemp  
**Sample Date:** 11/15/2018

**Lab ID:** 2018000773  
**Date Received:** 11/16/2018

**Sample Matrix:** Hemp  
**Date Completed:** 11/20/2018

**Remarks:**

**Analysis Date/Time:** 11-17-2018 1618  
**Analyst:** KWF

**Method:** HPLC/UV  
**Instrument:** Agilent 1100

**Moisture Content (%):** 9.81  
**Water Activity (aw):** 0.4583 at 25.03°C

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>Reporting Limit (mg/g)</u>	<u>Per Unit (mg)</u>
CBD	0.0488	0.488	0.05	0.490
CBDa	15.5	155	0.05	155
CBDv	0.0479	0.479	0.05	0.480
Δ9-THC	0.102	1.02	0.05	1.02
Δ8-THC	<RL	<RL	0.05	-
THCa	0.596	5.96	0.05	5.96
CBC	0.0400	0.400	0.05	0.400
CBG	0.0383	0.383	0.05	0.380
CBGa	0.607	6.07	0.05	6.07
CBN	<RL	<RL	0.05	-
<b>TOTAL</b>	<b>17.0</b>	<b>170</b>		<b>170</b>
<b>TOTAL THC</b>	<b>0.624</b>	<b>6.24</b>		<b>6.24</b>
<b>TOTAL CBD</b>	<b>13.6</b>	<b>136</b>		<b>136</b>



**UNIT MASS (g):** 1.00

Deviations from standard operating procedure: None

Recoveries for all analyte standards: 90-110%  
 Replicate Uncertainties: <5% RSD, <20% RPD  
 Sample/Reagent Blanks: <RL for all analytes

Values for plant matter are adjusted for moisture content.

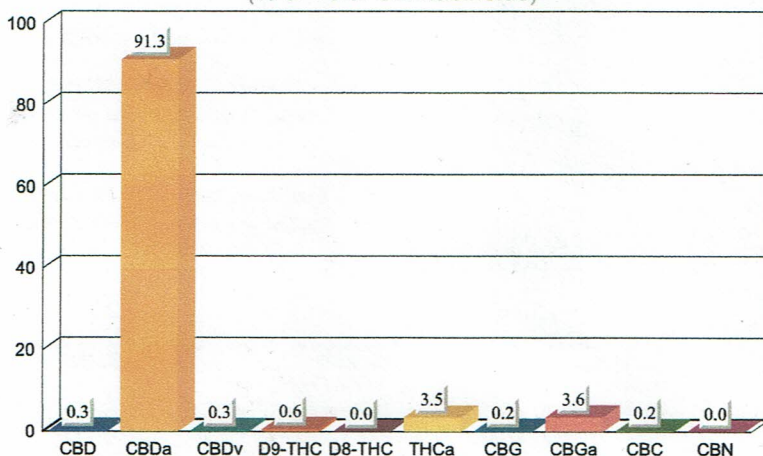
Total THC = (THCa x 0.877) + Δ9-THC  
 Total CBD = (CBDa x 0.877) + CBD

Percentage results are reported by mass.  
 mg/g results are reported as mass component per mass material.

Abbreviations: UV - Ultraviolet, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation

### Cannabinoid Distribution

(% of Total Cannabinoids)



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*Kyle W. Felling*  
 Kyle W. Felling, Ph.D.  
 Laboratory Director

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