



**Marijuana Potency Analysis by  
 High Performance Liquid Chromatography**

Testing Accreditation #: 4092-004

Test Certificate #: 123603-001

**Client Name, Sample Details**  
 IEC Thermal  
 Rockford, IL 61104  
**Sample:** Raw Wet Feed  
**Type:** Industrial Hemp  
**Method:** FE04U  
**\*\*\*Water Activity:** 0.982  
**\*\*\*Moisture:** 70.84%

**Test Conditions**  
**Scale:** XS205-OR1  
**Temp:** 22.3 °C  
**Baro Pressure:** 1007 hPa  
**Analyst:** HRM  
**Technician:** TMR

**Sample ID#:** 123603  
**Harvest/Process Date:** 04/14/2020  
**Date Received:** 04/14/2020  
**Test Date:** 04/17/2020



Test Compounds	THC	THCA	CBD	CBDA	CBN	CBG	CBC	THCV*	CBDV	Total Cannabinoids*	Total THC	Total CBD	Calc Max Total Cannabinoids*
Amount (%)	N/D	0.23	0.77	8.63	N/D	N/D	0.08	N/D	N/D	9.70	0.20	8.33	8.53
Amount (mg/g)	N/D	2.26	7.66	86.27	N/D	N/D	0.80	N/D	N/D	96.99	1.98	83.32	86.10
Amount per Serving (mg)	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	0.00	<b>Serving Size~ (g):</b>		0.00
LOQ (mg/g)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		<b>%Decarb.</b>	<b>THC</b>	<b>CBD</b>
±%RPD	+/-5%	+/-5%	+/-5%	+/-5%	+/-5%	+/-5%	+/-5%	+/-5%	+/-5%			0	

LOQ = Limit of Quantitation; %RPD = Relative Percent Deviation; %RSD = Relative Standard Deviation; N/D = Not Detected

\*Designates values that are not currently included in the accredited scope of Iron Laboratories.

\*\*\* Designates tests that use the method FE-45.

Total THC and CBD is the calculated sum of THC or CBD and the amount of THC or CBD derived from THCA or CBDA, respectively. These values are calculated by applying a molar correction factor of 0.877 to the THCA or the CBDA value. Calc Max Total Cannabinoids is the sum of Total THC, Total CBD, CBN, CBG, CBC, THCV, and CBDV.

%Decarb. THC and CBD refers to the percentage of THC or CBD relative to THCA or CBDA, respectively.

This sample has not been tested according to OAR 333-007. These results should therefore be used for research and development or quality control purposes only.

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Himashi Mead, Technical Manager



Joseph Rutkowski, Quality Manager

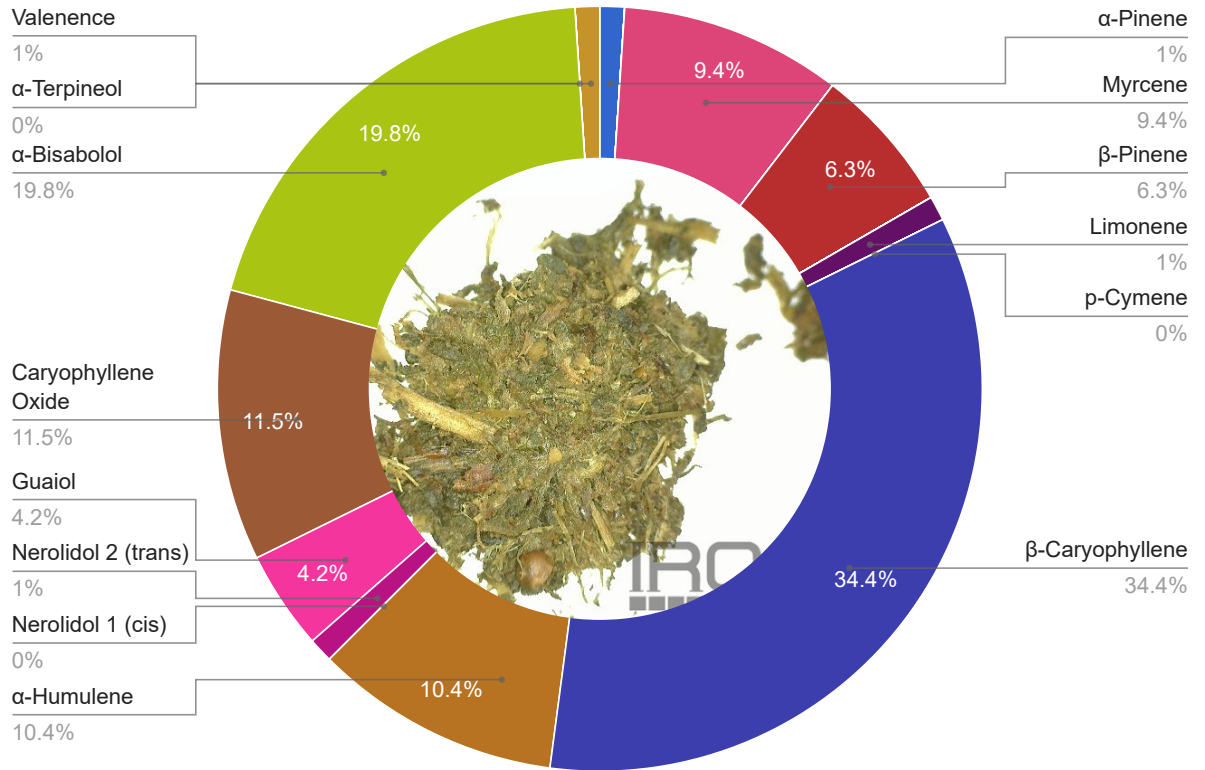
Iron Labs Oregon complies with 2009 TNI Environmental Laboratory Standards.

Tested by Iron Laboratories Oregon, 71 Centennial Loop Suite D Eugene, OR 97401

**Client Name, Sample Details**  
**IEC Thermal**  
 Rockford, IL 61104  
**Sample:** Raw Wet Feed  
**Type:** Industrial Hemp  
**Method:** SOP FE-44-OR3

**Test Conditions**  
**Scale:** XS205-OR1  
**Temp:** 22.1 °C  
**Baro Pressure:** 1012 hPa  
**Analyst:** HRM  
**Technician:** HRM

**Sample ID#:** 123603  
**Harvest/Process Date:** 04/14/2020  
**Date Received:** 04/14/2020



alpha-Pinene (0.01%)	beta-Ocimene (0.00%)	Camphene (0.00%)	Eucalyptol (1,8-Cineol) (0.00%)	Sabinene (0.00%)
gamma-Terpinene (0.00%)	Myrcene (0.09%)	alpha-Terpinolene (0.00%)	beta-Pinene (0.06%)	Linalool (0.00%)
delta-3-Carene (0.00%)	Fenchone (0.00%)	alpha-Terpinene (0.00%)	endo-Fenchol (0.00%)	alpha-Ocimene (0.00%)
Isopulegol (0.00%)	Limonene (0.01%)	Geraniol (0.00%)	p-Cymene (0.00%)	beta-Caryophyllene (0.33%)
alpha-Humulene (0.10%)	Nerolidol 1 (cis) (0.00%)	Nerolidol 2 (trans) (0.01%)	Guaiol (0.04%)	Caryophyllene Oxide (0.11%)
alpha-Bisabolol (0.19%)	alpha-Phellandrene (0.00%)	alpha-Terpineol (0.00%)	Valence (0.01%)	

**Predominant Terpenes**

Total: 0.960%

0.33% beta-Caryophyllene	Sweet, woody, spicy, clove	0.19% alpha-Bisabolol	Fruity, nutty, coconut
0.11% Caryophyllene Oxide	Sweet, fresh, woody, spicy	0.10% alpha-Humulene	Woody, oceanic-watery, spicy clove
0.09% Myrcene	Peppery, spicy balsam	0.06% beta-Pinene	Woody, fresh pine, hay

Value in parenthesis indicates percentage of terpene present in the total sample (weight percentage, wt/wt%).  
 Value in doughnut slice indicates individual terpene abundance with respect to the total terpenes detected.

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