

# CERTIFICATE OF ANALYSIS

\* FOR QUALITY ASSURANCE PURPOSES. NOT A MICHIGAN COMPLIANCE CERTIFICATE.

PRODUCED: JUN 17, 2020

**SAMPLE:** HEMP SEED OIL (EDIBLE LIQUID) // **CLIENT:** GRAND TRAVERSE CULINARY OILS // **BATCH:** PASS



**MATRIX:** EDIBLE LIQUID  
**CATEGORY:** EDIBLE  
**SAMPLE ID:** CAM-200615-015  
**COLLECTED ON:** JUN 15, 2020  
**RECEIVED ON:** JUN 15, 2020  
**BATCH SIZE:** 1 LITERS  
**SAMPLE SIZE:** 3 GRAMS



**BATCH RESULT:** PASS

POTENCY            TESTED

## P 1: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD // JUN 17, 2020

ANALYTE	AMOUNT (%)	LOD/LOQ (%)	PASS/FAIL	ANALYTE	AMOUNT (%)	LOD/LOQ (%)	PASS/FAIL
CBC	ND	0.0000052/0.0000172	N/A	CBN	ND	0.0000085/0.0000283	N/A
CBD	ND	0.0000109/0.0000363	N/A	Δ <sup>8</sup> -THC	ND	0.0000058/0.0000193	N/A
CBDA	ND	0.0000142/0.0000474	N/A	Δ <sup>9</sup> -THC	ND	0.0000102/0.000034	N/A
CBDV	ND	0.0000067/0.0000224	N/A	THCA	ND	0.0000088/0.0000294	N/A
CBG	ND	0.0000058/0.0000192	N/A	<b>TOTAL THC **</b>	ND		N/A
CBGA	ND	0.0000033/0.0000109	N/A	<b>TOTAL CBD **</b>	ND		N/A

\*\* TOTAL THC = (THCA X 0.877) + THC  
 \*\* TOTAL CBD = (CBDA X 0.877) + CBD



**RESULTS CERTIFIED BY:** XIN YAN  
 LABORATORY DIRECTOR, CAMBIUM ANALYTICA  
 JUN 17, 2020

*Xin Yan*

**RESULTS CERTIFIED BY:** DOUGLAS SMITH  
 CHIEF SCIENTIST, CAMBIUM ANALYTICA  
 JUN 17, 2020

*D. Smith*

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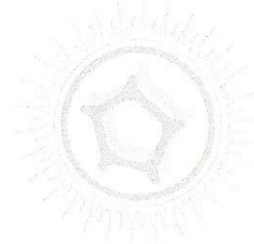
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PRODUCED: JUN 17, 2020

SAMPLE: HEMP SEED MEAL (EDIBLE SOLID) // CLIENT: GRAND TRAVERSE CULINARY OILS // BATCH: PASS



**MATRIX:** EDIBLE SOLID  
**CATEGORY:** EDIBLE  
**SAMPLE ID:** CAM-200615-016  
**COLLECTED ON:** JUN 15, 2020  
**RECEIVED ON:** JUN 15, 2020  
**BATCH SIZE:** 1 OUNCES  
**SAMPLE SIZE:** 1 GRAMS



**BATCH RESULT: PASS**

POTENCY      TESTED

## 01: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD // JUN 17, 2020

ANALYTE	AMOUNT (%)	LOD/LOQ (%)	PASS/FAIL	ANALYTE	AMOUNT (%)	LOD/LOQ (%)	PASS/FAIL
CBC	ND	0.0000052/0.0000172	N/A	CBN	ND	0.0000085/0.0000283	N/A
CBD	ND	0.0000109/0.0000363	N/A	Δ <sup>8</sup> -THC	ND	0.0000058/0.0000193	N/A
CBDA	ND	0.0000142/0.0000474	N/A	Δ <sup>9</sup> -THC	ND	0.0000102/0.000034	N/A
CBDV	ND	0.0000067/0.0000224	N/A	THCA	ND	0.0000088/0.0000294	N/A
CBG	ND	0.0000058/0.0000192	N/A	TOTAL THC **	ND		N/A
CBGA	ND	0.0000033/0.0000109	N/A	TOTAL CBD **	ND		N/A

\*\* TOTAL THC = (THCA X 0.877) + THC  
 \*\* TOTAL CBD = (CBDA X 0.877) + CBD



**RESULTS CERTIFIED BY: XIN YAN**  
 LABORATORY DIRECTOR, CAMBIUM ANALYTICA  
 JUN 17, 2020

*Xin Yan*

**RESULTS CERTIFIED BY: DOUGLAS SMITH**  
 CHIEF SCIENTIST, CAMBIUM ANALYTICA  
 JUN 17, 2020

*Douglas Smith*

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