

# Certificate of Analysis

**Batch ID:** A211903  
**Job ID:** CA01250-0004334  
**Sample ID:** FS2736  
**Date Received:** Feb 08 2019  
**Date Reported:** Feb 25 2019  
**Sample Description:** Sample Type: Hemp oil  
 Lot Number: A211903  
 Details:  
 Quotation Id:

Method	Reference	Test	Result	Units
FFA-01	AOCS Ca 5a-40 modified	Free Fatty Acids (FFA)	0.37	%
PV-01	AOCS Cd 8b-90 modified	Peroxide Value (PV)	2.68	meq/kg
TFAT-01	AOCS Ce 1h-05 modified	Omega 6 <sup>1</sup>	57.9	%
TFAT-01	AOCS Ce 1h-05 modified	Omega 3 <sup>1</sup>	17.1	%
TFAT-01	AOCS Ce 1h-05 modified	Polyunsaturates <sup>1</sup>	75	%
TFAT-01	AOCS Ce 1h-05 modified	Omega 9 <sup>1</sup>	13.9	%
TFAT-01	AOCS Ce 1h-05 modified	Monounsaturates <sup>1</sup>	14.8	%
TFAT-01	AOCS Ce 1h-05 modified	Saturates <sup>1</sup>	9.91	%
TFAT-01	AOCS Ce 1h-05 modified	Other FA <sup>1</sup>	0.28	%
TFAT-01	AOCS Ce 1h-05 modified	C24:1n9 Nervonic <sup>1</sup>	0.12	%
TFAT-01	AOCS Ce 1h-05 modified	C24:0 Lignoceric <sup>1</sup>	0.18	%




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TFAT-01	AOCS Ce 1h-05 modified	C22:1n9 Erucic <sup>1</sup>	<0.03	%
TFAT-01	AOCS Ce 1h-05 modified	C22:0 Behenic <sup>1</sup>	0.4	%
TFAT-01	AOCS Ce 1h-05 modified	C20:2n6 Eicosadienoic <sup>1</sup>	0.07	%
TFAT-01	AOCS Ce 1h-05 modified	C20:1n9 Eicosenoic 11 <sup>1</sup>	0.45	%
TFAT-01	AOCS Ce 1h-05 modified	C20:0 Arachidic <sup>1</sup>	0.94	%
TFAT-01	AOCS Ce 1h-05 modified	C18:4n6 Octadecatetraenoic <sup>1</sup>	1.58	%
TFAT-01	AOCS Ce 1h-05 modified	C18:3n6 Alpha-Linolenic <sup>1</sup>	15.6	%
TFAT-01	AOCS Ce 1h-05 modified	C18:3n6 Gamma-Linolenic <sup>1</sup>	5.15	%
TFAT-01	AOCS Ce 1h-05 modified	C18:2n6 Linoleic <sup>1</sup>	52.6	%
TFAT-01	AOCS Ce 1h-05 modified	C18:1n7 Vaccenate <sup>1</sup>	0.8	%
TFAT-01	AOCS Ce 1h-05 modified	C18:1n9 Oleic <sup>1</sup>	13.3	%
TFAT-01	AOCS Ce 1h-05 modified	C18:0 Stearic <sup>1</sup>	2.51	%
TFAT-01	AOCS Ce 1h-05 modified	C17:1n7 Heptadecenoic <sup>1</sup>	0.03	%
TFAT-01	AOCS Ce 1h-05 modified	C17:0 Heptadecanoic (Margaric) <sup>1</sup>	0.05	%
TFAT-01	AOCS Ce 1h-05 modified	C16:1n7 Palmitoleic <sup>1</sup>	0.09	%
TFAT-01	AOCS Ce 1h-05 modified	C16:0 Palmitic <sup>1</sup>	5.76	%
TFAT-01	AOCS Ce 1h-05 modified	C14:0 Myristic <sup>1</sup>	0.05	%
TFAT-01	AOCS Ce 1h-05 modified	C12:0 Lauric <sup>1</sup>	<0.03	%



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FFA-01	AOCS Ca 5a-40 modified	Acid Value (AV)	0.74	%
METMIN-01	AOAC 2015.01 modified	Arsenic	<0.03	ppm
METMIN-01	AOAC 2015.01 modified	Cadmium	<0.03	ppm
METMIN-01	AOAC 2015.01 modified	Lead	<0.1	ppm
METMIN-01	AOAC 2015.01 modified	Mercury	<0.05	ppm
TFAT-01	AOCS Ce 1h-05 modified	Omega 9 <sup>1</sup>	133	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	Omega 6 <sup>1</sup>	553	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	Omega 3 <sup>1</sup>	164	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	Polyunsaturates <sup>1</sup>	716	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	Monounsaturates	142	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	Saturates <sup>1</sup>	94.6	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	Total Fatty Acids <sup>1</sup>	955	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	Others <sup>1</sup>	2.69	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C24:1n9 Nervonic <sup>1</sup>	1.19	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C24:0 Lignoceric <sup>1</sup>	1.79	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C22:1n9 Erucic <sup>1</sup>	<0.3	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C22:0 Behenic <sup>1</sup>	3.85	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C20:2n6 Eicosadienoic <sup>1</sup>	0.68	mg/g oil



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TFAT-01	AOCS Ce 1h-05 modified	C20:1n9 Eicosenoic 11 <sup>1</sup>	4.27	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C20:0 Arachidic <sup>1</sup>	9.06	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C18:4n6 Octadecatetraenoic <sup>1</sup>	15.08	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C18:3n6 Alpha-Linolenic <sup>1</sup>	149	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C18:3n6 Gamma-Linolenic <sup>1</sup>	49.2	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C18:2n6 Linoleic <sup>1</sup>	503	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C18:1n7 Vaccenate <sup>1</sup>	7.64	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C18:1n9 Oleic <sup>1</sup>	127	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C18:0 Stearic <sup>1</sup>	24	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C17:1n7 Heptadecenoic <sup>1</sup>	<0.3	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C17:0 Heptadecanoic (Margaric) <sup>1</sup>	0.46	mg/g oi
TFAT-01	AOCS Ce 1h-05 modified	C16:1n7 Palmitoleic <sup>1</sup>	0.85	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C16:0 Palmitic <sup>1</sup>	54.8	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C14:0 Myristic <sup>1</sup>	0.44	mg/g oil
TFAT-01	AOCS Ce 1h-05 modified	C12:0 Lauric <sup>1</sup>	<0.3	mg/g oil



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The results given herein apply to the submitted sample only.

Microbial results may be estimated as per specific method requirements.

A handwritten signature in black ink, appearing to read 'Sam Khayat', is written over a horizontal line.

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