

**GREEN PASTURES  
DAVE WETZEL  
BOX 486  
ONEILL NE 68763**

**REPORT OF ANALYSIS**

For: (20595) GREEN PASTURES  
FERMENTED COD LIVER OIL  
FCLO 31641ABS

Analysis	Level Found	Units	Reporting	Method	Analyst- Date	Verified- Date
	As Received		Limit			
Sample ID: <b>FCLO 31641ABS</b>	Lab Number: <b>2440468</b>					
Butyric (C4:0)	n.d.	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Caproic (C6:0)	n.d.	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Caprylic (C8:0)	n.d.	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Capric (C10:0)	n.d.	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Lauric (C12:0)	0.03	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Tridecanoic (C13:0)	0.01	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Myristic (C14:0)	4.39	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Myristoleic (C14:1 Cis)	0.11	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Pentadecanoic (C15:0)	0.29	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Palmitic (C16:0)	12.6	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Palmitoleic (C16:1 Cis)	9.59	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Heptadecanoic (C17:0)	0.130	%	0.010	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
10-Heptadecanoic (C17:1)	0.28	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Stearic (C18:0)	3.07	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Eliadic (C18:1 Trans)	0.81	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Oleic (C18:1 Cis)	29.9	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Linoleic (C18:2 Trans)	0.04	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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Linoleic (C18:2 Cis)	0.93	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
gamma-Linolenic (C18:3 gamma)	0.12	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Nonadecanoic (C19:0)	0.02	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
alpha-Linolenic (C18:3 alpha)	0.56	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Arachidic (C20:0)	0.07	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
11-Eicosenoic (C20:1)	3.79	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
11-14 Eicosadienoic (C20:2)	0.29	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Homo-gamma linolenic (C20:3)	0.11	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
11-14-17 Eicosatrienoic (C20:3)	0.11	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Arachidonic (C20:4)	0.54	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Eicosapentaenoic (C20:5)	17.6	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Heneicosanoic (C21:0)	n.d.	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Behenic (C22:0)	0.04	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Erucic (C22:1)	0.47	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Docosadienoic (C22:2)	0.06	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Docosapentaenoic (C22:5)	1.66	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Docosahexaenoic (C22:6)	11.6	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Tricosanoic (C23:0)	n.d.	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Lignoceric (C24:0)	n.d.	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11

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	As Received		Limit	Method		
<b>Sample ID: FCLO 31641ABS</b>	Lab Number: <b>2440468</b> (con't)					
Nervonic (C24:1)	0.40	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Saturated fat (total)	20.7	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Polyunsaturated fats (total)	33.6	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Monounsaturated fats (total)	44.5	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Trans fatty acids (total)	1.13	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Omega 3 fatty acids (total)	31.6	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Omega 6 fatty acids (total)	1.92	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11
Omega 9 fatty acids (total)	30.4	%	0.01	AOAC 996.06 *	amw7-2015/09/10	tjp8-2015/09/11

This report was reissued on 2015-11-20 15:39:01 by sjc9 for the following reason:  
REFORMAT REPORT PER EMAIL FROM JIE ZHANG.  
All results are reported on an AS RECEIVED basis., n.d. = not detected

For questions please contact:



Sue Ann Seitz  
Account Manager  
sueann.seitz@midwestlabs.com (402)829-9892

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REPORT NUMBER

**15-254-4156 v4**

REPORT DATE  
**Nov 20, 2015**

RECEIVED DATE  
**Sep 03, 2015**

SEND TO  
**20595**



13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121  
www.midwestlabs.com

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ISSUE DATE  
**Nov 20, 2015**

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**Detailed Method Description(s)**

**Fatty Acid Profile**

Sample prep follows MWL HPLC 008 and analysis follows HPLC 004 which are both based on AOAC 996.06. The fat in the sample is extracted and saponified and the fatty acids methylated to form the fatty acid methyl esters (FAMES). The methyl ester extract (FAMES) is injected into a GC that uses a flame ionization detector (GC/FID). The response generated during analyses of the individual FAME is compared to standards which are used to quantitate the levels of fatty acids found in the sample. The standard reporting level is 0.01% of the fat.

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