

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

REPORT OF ANALYSIS

For: (20595) GREEN PASTURES
COD LIVER OIL

Analysis	Level Found	Units	Reporting		Analyst- Date	Verified- Date
	As Received		Limit	Method		
Sample ID: CLO Sample E	Lab Number: 2443253					
Butyric (C4:0)	n.d.	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Caproic (C6:0)	n.d.	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Caprylic (C8:0)	n.d.	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Capric (C10:0)	n.d.	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Lauric (C12:0)	0.03	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Tridecanoic (C13:0)	0.02	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Myristic (C14:0)	5.37	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Myristoleic (C14:1 Cis)	0.10	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Pentadecanoic (C15:0)	0.33	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Palmitic (C16:0)	11.0	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Palmitoleic (C16:1 Cis)	8.11	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Heptadecanoic (C17:0)	0.129	%	0.010	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
10-Heptadecanoic (C17:1)	0.26	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Stearic (C18:0)	2.17	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Eliadic (C18:1 Trans)	1.14	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Oleic (C18:1 Cis)	19.4	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Linoleic (C18:2 Trans)	0.03	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22

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Sample ID: CLO Sample E	Lab Number: 2443253 (con't)					
Linoleic (C18:2 Cis)	1.92	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
gamma-Linolenic (C18:3 gamma)	0.12	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Nonadecanoic (C19:0)	0.01	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
alpha-Linolenic (C18:3 alpha)	0.92	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Arachidic (C20:0)	0.05	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
11-Eicosenoic (C20:1)	9.64	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
11-14 Eicosadienoic (C20:2)	0.36	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Homo-gamma linolenic (C20:3)	0.08	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
11-14-17 Eicosatrienoic (C20:3)	0.11	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Arachidonic (C20:4)	0.41	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Eicosapentaenoic (C20:5)	10.2	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Heneicosanoic (C21:0)	n.d.	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Behenic (C22:0)	0.01	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Erucic (C22:1)	0.59	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Docosadienoic (C22:2)	0.04	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Docosapentaenoic (C22:5)	0.94	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Docosahexaenoic (C22:6)	9.91	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Tricosanoic (C23:0)	n.d.	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Lignoceric (C24:0)	16.0	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22

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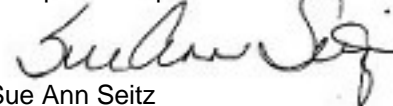
REPORT OF ANALYSIS

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	As Received		Limit	Method		
Sample ID: CLO Sample E	Lab Number: 2443253 (con't)					
Nervonic (C24:1)	0.38	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Saturated fat (total)	35.1	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Polyunsaturated fats (total)	25.0	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Monounsaturated fats (total)	38.5	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Trans fatty acids (total)	1.39	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Omega 3 fatty acids (total)	22.0	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Omega 6 fatty acids (total)	2.81	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22
Omega 9 fatty acids (total)	20.0	%	0.01	AOAC 996.06 *	amw7-2015/09/16	tjp8-2015/09/22

This report was reissued on 2015-11-20 15:42:13 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:



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

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REPORT NUMBER

15-271-4044 v5

REPORT DATE
Nov 20, 2015

RECEIVED DATE
Sep 11, 2015

SEND TO
20595



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ISSUE DATE
Nov 20, 2015

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REPORT OF ANALYSIS

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COD LIVER OIL

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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