



CERTIFICATE OF ANALYSIS

SILLIKER, Inc.
Illinois Laboratory

3600 Eagle Nest Drive, North Building, Crete, IL 60417
Tel. 877-777-6375 Fax. 312-729-1320

COA No:	CHG-38448701-0
Supersedes:	CHG-38419148-0
COA Date	10/27/15
Page 1 of 13	

TO:

Dr. Jie Zhang
Quality Control and Product Safety Manag
Green Pasture Products
PO Box 486
O'Neill, NE 68763

Received From:	O'Neill, NE
Received Date:	10/2/15

Location of Test: (except where noted) Crete, IL
--

Analytical Results

Desc. 1: FCLO vhm13209

Laboratory ID: 356185810
Condition Rec'd: NORMAL
Temp Rec'd (°C): 19

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Test Date</u>	<u>Loc.</u>
Fat by Fatty Acid Profile			AOAC 996.06	10/7/15	
<u>Fat Analysis by GC - Summary</u>					
Fat by Fatty Acid Profile	91.89	g/100g			
Total Saturated Fatty Acids	21.99	g/100g			
Total Monounsaturated Fatty Acids	40.74	g/100g			
Total Polyunsaturated Fatty Acids	24.61	g/100g			
Total Trans Fatty Acids	0.50	g/100g			
Total Conjugated Fatty Acids	0.05	g/100g			

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Received Date:	10/2/15

Location of Test: (except where noted) Crete, IL
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Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356185810	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
4:0 Butanoic (Butyric)						0.000	0.000
5:0 Pentanoic (Valeric)						0.000	0.000
6:0 Hexanoic (Caproic)						0.000	0.000
7:0 Heptanoic (Enanthic)						0.000	0.000
8:0 Octanoic (Caprylic)						0.000	0.000
9:0 Nonanoic (Pelargonic)						0.000	0.000
10:0 Decanoic (Capric)						0.000	0.000
11:0 Undecanoic						0.000	0.000
12:0 Dodecanoic (Lauric)	0.006					0.006	0.007
12:1 Dodecenoic						0.000	0.000
14:0 Tetradecanoic (Myristic)	4.220					4.454	4.802
14:1 trans-Tetradecenoic				0.093		0.099	0.106
14:1 Tetradecenoic (Myristoleic)		0.094				0.099	0.107
15:0 Pentadecanoic	0.214					0.225	0.243
15:1 Pentadecenoic						0.000	0.000
16:0 Hexadecanoic (Palmitic)	14.623					15.346	16.639
16:1 trans-Hexadecenoic				0.089		0.093	0.101
16:1 Hexadecenoic (Palmitoleic)		7.610				7.990	8.660
17:0 Heptadecanoic (Margaric)	0.085					0.089	0.096
17:1 Heptadecenoic (Margaroleic)		0.110				0.115	0.125
18:0 Octadecanoic (Stearic)	2.723					2.844	3.098
18:1 trans-Octadecenoic (incl. Elaidic)				0.137		0.143	0.156
18:1 Octadecenoic (incl. Oleic)		27.000				28.213	30.722
18:2 trans-Octadecadienoic				0.130		0.136	0.148
18:2 Octadecadienoic (Linoleic)			1.169			1.222	1.330
20:0 Eicosanoic (Arachidic)	0.061					0.063	0.069
18:3 trans-Octadecatrienoic						0.000	0.000
18:3 g-Linolenic			0.021			0.021	0.023
20:1 trans-Eicosenoic						0.000	0.000
20:1 Eicosenoic (incl. Gadoleic)		3.107				3.234	3.535
18:3 Octadecatrienoic (Linolenic)			0.521			0.545	0.593
21:0 Heneicosanoic	0.017					0.017	0.019
18:2 conj Linoleic					0.054	0.057	0.062
18:4 Octadecatetraenoic (Moroctic)			2.265			2.369	2.577
20:2 Eicosadienoic			0.152			0.158	0.173
20:3 5,8,11-Eicosatrienoic						0.000	0.000
22:0 Docosanoic (Behenic)	0.018					0.019	0.021
20:3 8,11,14-Eicosatrienoic (gamma)			0.045			0.047	0.052
22:1 trans-Docosanoic (Brassicidic)				0.050		0.052	0.057

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TO:

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 Green Pasture Products
 PO Box 486
 O'Neill, NE 68763

Received From:	O'Neill, NE
Received Date:	10/2/15

Location of Test: (except where noted) Crete, IL
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Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356185810	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
22:1 Cetoleic		2.314				2.401	2.633
22:1 Docosaenoic (Erucic)		0.327				0.339	0.372
20:3 11,14,17-Eicosatrienoic			0.176			0.183	0.200
20:4 Eicosatetraenoic (Arachidonic)			0.296			0.308	0.337
23:0 Tricosanoic						0.000	0.000
22:2 Docosadienoic			0.032			0.033	0.036
24:0 Tetracosanoic (Lignoceric)	0.021					0.021	0.024
20:5 Eicosapentaenoic			14.107			14.699	16.052
24:1 Tetracosanoic (Nervonic)		0.177				0.183	0.201
22:3 Docosatrienoic						0.000	0.000
22:4 Docosatetraenoic			0.019			0.020	0.022
22:5 Docosapentaenoic			0.379			0.394	0.431
22:6 Docosahexaenoic			5.423			5.652	6.171
Total (g per 100g)	21.99	40.74	24.61	0.50	0.05	91.89	100.00
% of Total Fatty Acid Concentration	25.02	46.36	28.00	0.57	0.06		

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Received From:	O'Neill, NE
Received Date:	10/2/15

Location of Test: (except where noted)
Crete, IL

Analytical Results

Desc. 1: FCLO 14651

Laboratory ID: 356185820
Condition Rec'd: NORMAL
Temp Rec'd (°C): 19

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Test Date</u>	<u>Loc.</u>
Fat by Fatty Acid Profile			AOAC 996.06	10/7/15	
<u>Fat Analysis by GC - Summary</u>					
Fat by Fatty Acid Profile	91.11	g/100g			
Total Saturated Fatty Acids	18.39	g/100g			
Total Monounsaturated Fatty Acids	42.16	g/100g			
Total Polyunsaturated Fatty Acids	26.08	g/100g			
Total Trans Fatty Acids	0.50	g/100g			
Total Conjugated Fatty Acids	0.04	g/100g			

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Received Date:	10/2/15

Location of Test: (except where noted) Crete, IL
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Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356185820	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
4:0 Butanoic (Butyric)						0.000	0.000
5:0 Pentanoic (Valeric)						0.000	0.000
6:0 Hexanoic (Caproic)						0.000	0.000
7:0 Heptanoic (Enanthic)						0.000	0.000
8:0 Octanoic (Caprylic)						0.000	0.000
9:0 Nonanoic (Pelargonic)						0.000	0.000
10:0 Decanoic (Capric)						0.000	0.000
11:0 Undecanoic						0.000	0.000
12:0 Dodecanoic (Lauric)	0.012					0.013	0.014
12:1 Dodecenoic						0.000	0.000
14:0 Tetradecanoic (Myristic)	3.922					4.140	4.499
14:1 trans-Tetradecenoic				0.110		0.116	0.126
14:1 Tetradecenoic (Myristoleic)		0.097				0.102	0.111
15:0 Pentadecanoic	0.222					0.234	0.255
15:1 Pentadecenoic						0.000	0.000
16:0 Hexadecanoic (Palmitic)	11.788					12.371	13.522
16:1 trans-Hexadecenoic				0.084		0.088	0.096
16:1 Hexadecenoic (Palmitoleic)		7.083				7.436	8.126
17:0 Heptadecanoic (Margaric)	0.084					0.088	0.097
17:1 Heptadecenoic (Margaroleic)		0.142				0.149	0.163
18:0 Octadecanoic (Stearic)	2.263					2.364	2.596
18:1 trans-Octadecenoic (incl. Elaidic)				0.134		0.140	0.153
18:1 Octadecenoic (incl. Oleic)		26.082				27.253	29.920
18:2 trans-Octadecadienoic				0.125		0.131	0.144
18:2 Octadecadienoic (Linoleic)			1.258			1.315	1.443
20:0 Eicosanoic (Arachidic)	0.044					0.046	0.051
18:3 trans-Octadecatrienoic						0.000	0.000
18:3 g-Linolenic			0.023			0.024	0.027
20:1 trans-Eicosenoic						0.000	0.000
20:1 Eicosenoic (incl. Gadoleic)		4.669				4.860	5.357
18:3 Octadecatrienoic (Linolenic)			0.644			0.673	0.738
21:0 Heneicosanoic	0.017					0.017	0.019
18:2 conj Linoleic					0.042	0.044	0.048
18:4 Octadecatetraenoic (Moroctic)			2.369			2.477	2.717
20:2 Eicosadienoic			0.184			0.192	0.211
20:3 5,8,11-Eicosatrienoic						0.000	0.000
22:0 Docosanoic (Behenic)	0.017					0.018	0.020
20:3 8,11,14-Eicosatrienoic (gamma)			0.057			0.060	0.066
22:1 trans-Docosanoic (Brassicidic)				0.053		0.055	0.061

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Page 6 of 13	

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PO Box 486
O'Neill, NE 68763

Received From:	O'Neill, NE
Received Date:	10/2/15

Location of Test: (except where noted) Crete, IL
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Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356185820	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
22:1 Cetoleic		3.412				3.540	3.914
22:1 Docosaenoic (Erucic)		0.439				0.456	0.504
20:3 11,14,17-Eicosatrienoic			0.196			0.204	0.225
20:4 Eicosatetraenoic (Arachidonic)			0.333			0.347	0.382
23:0 Tricosanoic						0.000	0.000
22:2 Docosadienoic			0.035			0.037	0.041
24:0 Tetracosanoic (Lignoceric)	0.018					0.019	0.021
20:5 Eicosapentaenoic			14.210			14.806	16.301
24:1 Tetracosanoic (Nervonic)		0.231				0.239	0.265
22:3 Docosatrienoic			0.008			0.009	0.009
22:4 Docosatetraenoic			0.026			0.027	0.030
22:5 Docosapentaenoic			0.590			0.613	0.677
22:6 Docosahexaenoic			6.147			6.406	7.051
Total (g per 100g)	18.39	42.16	26.08	0.50	0.04	91.11	100.00
% of Total Fatty Acid Concentration	21.09	48.36	29.92	0.58	0.05		

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Received From:	O'Neill, NE
Received Date:	10/2/15

Location of Test: (except where noted)
Crete, IL

Analytical Results

Desc. 1: Brand X cod liver oil

Laboratory ID: 356185847
Condition Rec'd: NORMAL
Temp Rec'd (°C): 19

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Test Date</u>	<u>Loc.</u>
Fat by Fatty Acid Profile			AOAC 996.06	10/7/15	
<u>Fat Analysis by GC - Summary</u>					
Fat by Fatty Acid Profile	91.07	g/100g			
Total Saturated Fatty Acids	22.48	g/100g			
Total Monounsaturated Fatty Acids	32.43	g/100g			
Total Polyunsaturated Fatty Acids	31.28	g/100g			
Total Trans Fatty Acids	0.90	g/100g			
Total Conjugated Fatty Acids	0.02	g/100g			

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Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356185847	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
4:0 Butanoic (Butyric)						0.000	0.000
5:0 Pentanoic (Valeric)						0.000	0.000
6:0 Hexanoic (Caproic)						0.000	0.000
7:0 Heptanoic (Enanthic)						0.000	0.000
8:0 Octanoic (Caprylic)						0.000	0.000
9:0 Nonanoic (Pelargonic)						0.000	0.000
10:0 Decanoic (Capric)						0.000	0.000
11:0 Undecanoic						0.000	0.000
12:0 Dodecanoic (Lauric)	0.055					0.059	0.063
12:1 Dodecenoic						0.000	0.000
14:0 Tetradecanoic (Myristic)	5.167					5.454	5.931
14:1 trans-Tetradecenoic				0.282		0.298	0.323
14:1 Tetradecenoic (Myristoleic)		0.057				0.060	0.065
15:0 Pentadecanoic	0.400					0.421	0.459
15:1 Pentadecenoic						0.000	0.000
16:0 Hexadecanoic (Palmitic)	14.035					14.729	16.111
16:1 trans-Hexadecenoic				0.175		0.183	0.200
16:1 Hexadecenoic (Palmitoleic)		6.148				6.455	7.058
17:0 Heptadecanoic (Margaric)	0.290					0.304	0.333
17:1 Heptadecenoic (Margaroleic)		0.269				0.282	0.309
18:0 Octadecanoic (Stearic)	2.227					2.326	2.556
18:1 trans-Octadecenoic (incl. Elaidic)				0.150		0.157	0.172
18:1 Octadecenoic (incl. Oleic)		18.840				19.685	21.627
18:2 trans-Octadecadienoic				0.263		0.275	0.302
18:2 Octadecadienoic (Linoleic)			3.058			3.197	3.511
20:0 Eicosanoic (Arachidic)	0.160					0.167	0.184
18:3 trans-Octadecatrienoic						0.000	0.000
18:3 g-Linolenic			0.030			0.031	0.034
20:1 trans-Eicosenoic						0.000	0.000
20:1 Eicosenoic (incl. Gadoleic)		3.380				3.519	3.881
18:3 Octadecatrienoic (Linolenic)			1.776			1.857	2.039
21:0 Heneicosanoic	0.019					0.020	0.022
18:2 conj Linoleic					0.020	0.021	0.023
18:4 Octadecatetraenoic (Moroctic)			2.472			2.585	2.837
20:2 Eicosadienoic			0.332			0.346	0.381
20:3 5,8,11-Eicosatrienoic						0.000	0.000
22:0 Docosanoic (Behenic)	0.086					0.089	0.099
20:3 8,11,14-Eicosatrienoic (gamma)			0.096			0.100	0.110
22:1 trans-Docosanoic (Brassicidic)				0.028		0.029	0.032

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Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356185847	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
22:1 Cetoleic		2.765				2.868	3.174
22:1 Docosaenoic (Erucic)		0.349				0.363	0.401
20:3 11,14,17-Eicosatrienoic			0.256			0.266	0.294
20:4 Eicosatetraenoic (Arachidonic)			0.662			0.690	0.760
23:0 Tricosanoic						0.000	0.000
22:2 Docosadienoic			0.066			0.068	0.075
24:0 Tetracosanoic (Lignoceric)	0.043					0.045	0.050
20:5 Eicosapentaenoic			10.183			10.609	11.689
24:1 Tetracosanoic (Nervonic)		0.624				0.646	0.716
22:3 Docosatrienoic			0.040			0.041	0.045
22:4 Docosatetraenoic			0.079			0.082	0.091
22:5 Docosapentaenoic			1.178			1.223	1.352
22:6 Docosahexaenoic			11.054			11.521	12.690
Total (g per 100g)	22.48	32.43	31.28	0.90	0.02	91.07	100.00
% of Total Fatty Acid Concentration	25.81	37.23	35.91	1.03	0.02		

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Supersedes:	CHG-38419148-0
COA Date	10/27/15
Page 10 of 13	

TO:

Dr. Jie Zhang
Quality Control and Product Safety Manag
Green Pasture Products
PO Box 486
O'Neill, NE 68763

Received From:	O'Neill, NE
Received Date:	10/2/15

Location of Test: (except where noted)
Crete, IL

Analytical Results

Desc. 1: Brand Y cod liver oil

Laboratory ID: 356185874
Condition Rec'd: NORMAL
Temp Rec'd (°C): 19

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Test Date</u>	<u>Loc.</u>
Fat by Fatty Acid Profile			AOAC 996.06	10/7/15	
<u>Fat Analysis by GC - Summary</u>					
Fat by Fatty Acid Profile	92.77	g/100g			
Total Saturated Fatty Acids	16.47	g/100g			
Total Monounsaturated Fatty Acids	43.24	g/100g			
Total Polyunsaturated Fatty Acids	28.43	g/100g			
Total Trans Fatty Acids	0.65	g/100g			
Total Conjugated Fatty Acids	0.02	g/100g			

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CERTIFICATE OF ANALYSIS

SILLIKER, Inc.
Illinois Laboratory

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Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356185874	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
4:0 Butanoic (Butyric)						0.000	0.000
5:0 Pentanoic (Valeric)						0.000	0.000
6:0 Hexanoic (Caproic)						0.000	0.000
7:0 Heptanoic (Enanthic)						0.000	0.000
8:0 Octanoic (Caprylic)						0.000	0.000
9:0 Nonanoic (Pelargonic)						0.000	0.000
10:0 Decanoic (Capric)						0.000	0.000
11:0 Undecanoic						0.000	0.000
12:0 Dodecanoic (Lauric)	0.019					0.020	0.021
12:1 Dodecenoic						0.000	0.000
14:0 Tetradecanoic (Myristic)	3.941					4.160	4.438
14:1 trans-Tetradecenoic				0.230		0.243	0.259
14:1 Tetradecenoic (Myristoleic)		0.089				0.094	0.101
15:0 Pentadecanoic	0.302					0.317	0.340
15:1 Pentadecenoic						0.000	0.000
16:0 Hexadecanoic (Palmitic)	9.918					10.409	11.168
16:1 trans-Hexadecenoic				0.145		0.152	0.163
16:1 Hexadecenoic (Palmitoleic)		7.262				7.624	8.178
17:0 Heptadecanoic (Margaric)	0.165					0.173	0.186
17:1 Heptadecenoic (Margaroleic)		0.209				0.219	0.236
18:0 Octadecanoic (Stearic)	2.042					2.134	2.300
18:1 trans-Octadecenoic (incl. Elaidic)				0.129		0.135	0.145
18:1 Octadecenoic (incl. Oleic)		19.405				20.276	21.850
18:2 trans-Octadecadienoic				0.130		0.136	0.147
18:2 Octadecadienoic (Linoleic)			2.018			2.109	2.272
20:0 Eicosanoic (Arachidic)	0.038					0.040	0.043
18:3 trans-Octadecatrienoic						0.000	0.000
18:3 g-Linolenic			0.027			0.029	0.031
20:1 trans-Eicosenoic						0.000	0.000
20:1 Eicosenoic (incl. Gadoleic)		9.815				10.215	11.051
18:3 Octadecatrienoic (Linolenic)			1.112			1.162	1.252
21:0 Heneicosanoic	0.014					0.015	0.016
18:2 conj Linoleic					0.019	0.020	0.021
18:4 Octadecatetraenoic (Moroctic)			3.293			3.444	3.708
20:2 Eicosadienoic			0.315			0.328	0.355
20:3 5,8,11-Eicosatrienoic						0.000	0.000
22:0 Docosanoic (Behenic)	0.015					0.016	0.017
20:3 8,11,14-Eicosatrienoic (gamma)			0.071			0.074	0.080
22:1 trans-Docosanoic (Brassicidic)				0.019		0.020	0.021

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Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356185874	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
22:1 Cetoleic		5.547				5.755	6.246
22:1 Docosaenoic (Erucic)		0.586				0.607	0.659
20:3 11,14,17-Eicosatrienoic			0.148			0.154	0.166
20:4 Eicosatetraenoic (Arachidonic)			0.333			0.346	0.375
23:0 Tricosanoic						0.000	0.000
22:2 Docosadienoic			0.024			0.025	0.028
24:0 Tetracosanoic (Lignoceric)	0.010					0.010	0.011
20:5 Eicosapentaenoic			8.828			9.198	9.941
24:1 Tetracosanoic (Nervonic)		0.331				0.343	0.373
22:3 Docosatrienoic			0.009			0.010	0.011
22:4 Docosatetraenoic			0.045			0.047	0.051
22:5 Docosapentaenoic			0.812			0.843	0.914
22:6 Docosahexaenoic			11.391			11.872	12.827
Total (g per 100g)	16.47	43.24	28.43	0.65	0.02	92.77	100.00
% of Total Fatty Acid Concentration	18.54	48.69	32.01	0.74	0.02		

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Page 13 of 13	

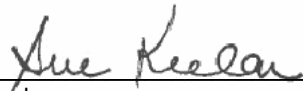
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Analytical Results



Sue Keelan Acting QA Manager

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