



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-38507821-0
Supersedes:	None
COA Date	11/16/15
Page 1 of 22	

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:	11/6/15

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

Analytical Results

Desc. 1: FCLO 06082515

Laboratory ID: 356881836
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	11/16/15	
<u>Fat Analysis by GC - Summary</u>					
Fat by Fatty Acid Profile	92.22	g/100g			
Total Saturated Fatty Acids	14.01	g/100g			
Total Monounsaturated Fatty Acids	49.98	g/100g			
Total Polyunsaturated Fatty Acids	23.67	g/100g			
Total Trans Fatty Acids	0.59	g/100g			
Total Conjugated Fatty Acids	0.06	g/100g			

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Page 2 of 22	

TO:

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

Received From:	O'Neill, NE
Received Date:	11/6/15

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

Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356881836	
	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)	0.023					0.025	0.026
12:1 Dodecenoic						0.000	0.000
14:0 Tetradecanoic (Myristic)	2.596					2.740	2.940
14:1 trans-Tetradecenoic				0.087		0.092	0.098
14:1 Tetradecenoic (Myristoleic)		0.075				0.079	0.085
15:0 Pentadecanoic	0.212					0.223	0.240
15:1 Pentadecenoic						0.000	0.000
16:0 Hexadecanoic (Palmitic)	8.768					9.201	9.929
16:1 trans-Hexadecenoic				0.133		0.140	0.151
16:1 Hexadecenoic (Palmitoleic)		7.978				8.376	9.035
17:0 Heptadecanoic (Margaric)	0.089					0.093	0.101
17:1 Heptadecenoic (Margaroleic)		0.249				0.261	0.282
18:0 Octadecanoic (Stearic)	2.132					2.227	2.414
18:1 trans-Octadecenoic (incl. Elaidic)				0.234		0.245	0.266
18:1 Octadecenoic (incl. Oleic)		23.672				24.735	26.808
18:2 trans-Octadecadienoic				0.094		0.098	0.106
18:2 Octadecadienoic (Linoleic)			1.011			1.057	1.145
20:0 Eicosanoic (Arachidic)	0.072					0.075	0.081
18:3 trans-Octadecatrienoic				0.033		0.034	0.037
18:3 g-Linolenic			0.038			0.040	0.044
20:1 trans-Eicosenoic						0.000	0.000
20:1 Eicosenoic (incl. Gadoleic)		12.295				12.797	13.924
18:3 Octadecatrienoic (Linolenic)			0.329			0.344	0.373
21:0 Heneicosanoic	0.017					0.018	0.020
18:2 conj Linoleic					0.056	0.058	0.063
18:4 Octadecatetraenoic (Moroctic)			1.024			1.071	1.160
20:2 Eicosadienoic			0.276			0.287	0.312
20:3 5,8,11-Eicosatrienoic						0.000	0.000
22:0 Docosanoic (Behenic)	0.048					0.050	0.055
20:3 8,11,14-Eicosatrienoic (gamma)			0.056			0.058	0.063
22:1 trans-Docosanoic (Brassicidic)				0.007		0.008	0.008

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Supersedes:	None
COA Date	11/16/15
Page 3 of 22	

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:	11/6/15

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

Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356881836	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
22:1 Cetoleic		4.846				5.028	5.488
22:1 Docosaenoic (Erucic)		0.504				0.523	0.571
20:3 11,14,17-Eicosatrienoic			0.064			0.066	0.072
20:4 Eicosatetraenoic (Arachidonic)			0.591			0.616	0.669
23:0 Tricosanoic						0.000	0.000
22:2 Docosadienoic			0.047			0.049	0.054
24:0 Tetracosanoic (Lignoceric)	0.048					0.050	0.054
20:5 Eicosapentaenoic			9.008			9.386	10.201
24:1 Tetracosanoic (Nervonic)		0.361				0.373	0.409
22:3 Docosatrienoic						0.000	0.000
22:4 Docosatetraenoic			0.106			0.111	0.121
22:5 Docosapentaenoic			1.507			1.565	1.707
22:6 Docosahexaenoic			9.613			10.019	10.887
Total (g per 100g)	14.01	49.98	23.67	0.59	0.06	92.22	100.00
% of Total Fatty Acid Concentration	15.86	56.60	26.81	0.67	0.06		

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Table with COA No: CHG-38507821-0, Supersedes: None, COA Date: 11/16/15, Page 4 of 22

TO:

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

Table with Received From: O'Neill, NE, Received Date: 11/6/15

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

Analytical Results

Desc. 1: FCLO 07090315

Laboratory ID: 356881850
Condition Rec'd: NORMAL
Temp Rec'd (°C): 19

Table with columns: Analyte, Result, Units, Method Reference, Test Date, Loc.
Rows include Fat by Fatty Acid Profile, Fat Analysis by GC - Summary, Total Saturated Fatty Acids, etc.

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Page 5 of 22	

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:	11/6/15

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

Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356881850	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
4:0 Butanoic (Butyric)	0.026					0.030	0.030
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)	0.012					0.013	0.014
11:0 Undecanoic						0.000	0.000
12:0 Dodecanoic (Lauric)	0.026					0.028	0.030
12:1 Dodecenoic						0.000	0.000
14:0 Tetradecanoic (Myristic)	2.278					2.404	2.594
14:1 trans-Tetradecenoic				0.089		0.094	0.101
14:1 Tetradecenoic (Myristoleic)		0.072				0.076	0.082
15:0 Pentadecanoic	0.238					0.251	0.271
15:1 Pentadecenoic						0.000	0.000
16:0 Hexadecanoic (Palmitic)	8.087					8.487	9.210
16:1 trans-Hexadecenoic				0.146		0.153	0.166
16:1 Hexadecenoic (Palmitoleic)		9.310				9.775	10.604
17:0 Heptadecanoic (Margaric)	0.127					0.133	0.145
17:1 Heptadecenoic (Margaroleic)		0.302				0.317	0.344
18:0 Octadecanoic (Stearic)	1.918					2.003	2.184
18:1 trans-Octadecenoic (incl. Elaidic)				0.289		0.302	0.329
18:1 Octadecenoic (incl. Oleic)		24.948				26.069	28.415
18:2 trans-Octadecadienoic				0.173		0.180	0.197
18:2 Octadecadienoic (Linoleic)			1.038			1.085	1.182
20:0 Eicosanoic (Arachidic)	0.040					0.042	0.046
18:3 trans-Octadecatrienoic				0.030		0.032	0.035
18:3 g-Linolenic			0.049			0.051	0.055
20:1 trans-Eicosenoic						0.000	0.000
20:1 Eicosenoic (incl. Gadoleic)		9.125				9.498	10.393
18:3 Octadecatrienoic (Linolenic)			1.481			1.548	1.686
21:0 Heneicosanoic	0.019					0.020	0.022
18:2 conj Linoleic					0.131	0.137	0.149
18:4 Octadecatetraenoic (Moroctic)			1.065			1.114	1.213
20:2 Eicosadienoic			0.502			0.522	0.571
20:3 5,8,11-Eicosatrienoic						0.000	0.000
22:0 Docosanoic (Behenic)	0.021					0.021	0.023
20:3 8,11,14-Eicosatrienoic (gamma)			0.079			0.082	0.089
22:1 trans-Docosanoic (Brassicidic)				0.020		0.021	0.023

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COA Date	11/16/15
Page 6 of 22	

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:	11/6/15

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

Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356881850	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
22:1 Cetoleic		3.211				3.331	3.657
22:1 Docosaenoic (Erucic)		0.386				0.400	0.440
20:3 11,14,17-Eicosatrienoic			0.191			0.199	0.217
20:4 Eicosatetraenoic (Arachidonic)			0.782			0.814	0.890
23:0 Tricosanoic						0.000	0.000
22:2 Docosadienoic			0.045			0.047	0.052
24:0 Tetracosanoic (Lignoceric)	0.011					0.011	0.013
20:5 Eicosapentaenoic			11.002			11.464	12.531
24:1 Tetracosanoic (Nervonic)		0.272				0.282	0.310
22:3 Docosatrienoic			0.022			0.023	0.025
22:4 Docosatetraenoic			0.137			0.142	0.156
22:5 Docosapentaenoic			1.385			1.438	1.578
22:6 Docosahexaenoic			8.715			9.083	9.926
Total (g per 100g)	12.80	47.63	26.49	0.75	0.13	91.72	100.00
% of Total Fatty Acid Concentration	14.58	54.25	30.17	0.85	0.15		

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TO:

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

Table with Received From: O'Neill, NE, Received Date: 11/6/15

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

Analytical Results

Desc. 1: Brand A cod liver oil

Laboratory ID: 356881856
Condition Rec'd: NORMAL
Temp Rec'd (°C): 19

Table with columns: Analyte, Result, Units, Method Reference, Test Date, Loc.
Rows include Fat by Fatty Acid Profile, Fat Analysis by GC - Summary, Total Saturated Fatty Acids, Total Monounsaturated Fatty Acids, Total Polyunsaturated Fatty Acids, Total Trans Fatty Acids, Total Conjugated Fatty Acids.

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 PO Box 486
 O'Neill, NE 68763

Received From:	O'Neill, NE
Received Date:	11/6/15

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

Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356881856	
	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)	0.011					0.012	0.013
9:0 Nonanoic (Pelargonic)						0.000	0.000
10:0 Decanoic (Capric)	0.033					0.036	0.039
11:0 Undecanoic						0.000	0.000
12:0 Dodecanoic (Lauric)	0.023					0.025	0.027
12:1 Dodecenoic						0.000	0.000
14:0 Tetradecanoic (Myristic)	3.378					3.566	3.920
14:1 trans-Tetradecenoic				0.249		0.263	0.289
14:1 Tetradecenoic (Myristoleic)		0.086				0.090	0.099
15:0 Pentadecanoic	0.263					0.277	0.305
15:1 Pentadecenoic						0.000	0.000
16:0 Hexadecanoic (Palmitic)	7.944					8.337	9.218
16:1 trans-Hexadecenoic				0.155		0.163	0.180
16:1 Hexadecenoic (Palmitoleic)		8.239				8.650	9.561
17:0 Heptadecanoic (Margaric)	0.092					0.097	0.107
17:1 Heptadecenoic (Margaroleic)		0.194				0.204	0.226
18:0 Octadecanoic (Stearic)	1.659					1.733	1.925
18:1 trans-Octadecenoic (incl. Elaidic)				0.085		0.089	0.099
18:1 Octadecenoic (incl. Oleic)		18.518				19.349	21.489
18:2 trans-Octadecadienoic				0.107		0.112	0.124
18:2 Octadecadienoic (Linoleic)			2.030			2.122	2.356
20:0 Eicosanoic (Arachidic)	0.070					0.073	0.081
18:3 trans-Octadecatrienoic				0.073		0.076	0.085
18:3 g-Linolenic			0.020			0.021	0.023
20:1 trans-Eicosenoic				0.003		0.004	0.004
20:1 Eicosenoic (incl. Gadoleic)		11.811				12.293	13.706
18:3 Octadecatrienoic (Linolenic)			0.706			0.738	0.820
21:0 Heneicosanoic	0.032					0.033	0.037
18:2 conj Linoleic					0.044	0.046	0.051
18:4 Octadecatetraenoic (Moroctic)			2.340			2.448	2.716
20:2 Eicosadienoic			0.275			0.286	0.319
20:3 5,8,11-Eicosatrienoic						0.000	0.000
22:0 Docosanoic (Behenic)	0.117					0.121	0.135
20:3 8,11,14-Eicosatrienoic (gamma)			0.069			0.072	0.081
22:1 trans-Docosanoic (Brassicidic)				0.015		0.015	0.017

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Received Date:	11/6/15

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

Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356881856	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
22:1 Cetoleic		5.555				5.763	6.447
22:1 Docosaenoic (Erucic)		0.696				0.722	0.807
20:3 11,14,17-Eicosatrienoic			0.087			0.090	0.101
20:4 Eicosatetraenoic (Arachidonic)			0.295			0.307	0.342
23:0 Tricosanoic						0.000	0.000
22:2 Docosadienoic			0.025			0.026	0.029
24:0 Tetracosanoic (Lignoceric)	0.071					0.073	0.082
20:5 Eicosapentaenoic			7.377			7.686	8.561
24:1 Tetracosanoic (Nervonic)		0.319				0.330	0.370
22:3 Docosatrienoic			0.006			0.006	0.007
22:4 Docosatetraenoic			0.063			0.065	0.073
22:5 Docosapentaenoic			1.010			1.049	1.172
22:6 Docosahexaenoic			12.027			12.534	13.956
Total (g per 100g)	13.69	45.42	26.33	0.69	0.04	90.00	100.00
% of Total Fatty Acid Concentration	15.89	52.70	30.56	0.80	0.05		

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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:	11/6/15

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

Analytical Results

Desc. 1: Brand B cod liver oil

Laboratory ID: 356881867
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	11/16/15	
<u>Fat Analysis by GC - Summary</u>					
Fat by Fatty Acid Profile	91.48	g/100g			
Total Saturated Fatty Acids	13.78	g/100g			
Total Monounsaturated Fatty Acids	47.05	g/100g			
Total Polyunsaturated Fatty Acids	26.01	g/100g			
Total Trans Fatty Acids	0.66	g/100g			
Total Conjugated Fatty Acids	0.08	g/100g			

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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-38507821-0
Supersedes:	None
COA Date	11/16/15
Page 11 of 22	

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:	11/6/15

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

Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356881867	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
4:0 Butanoic (Butyric)	0.029					0.034	0.034
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)	0.009					0.009	0.010
9:0 Nonanoic (Pelargonic)						0.000	0.000
10:0 Decanoic (Capric)	0.024					0.026	0.028
11:0 Undecanoic						0.000	0.000
12:0 Dodecanoic (Lauric)	0.034					0.036	0.038
12:1 Dodecenoic						0.000	0.000
14:0 Tetradecanoic (Myristic)	3.343					3.529	3.817
14:1 trans-Tetradecenoic				0.234		0.247	0.267
14:1 Tetradecenoic (Myristoleic)		0.088				0.093	0.100
15:0 Pentadecanoic	0.248					0.260	0.283
15:1 Pentadecenoic						0.000	0.000
16:0 Hexadecanoic (Palmitic)	8.107					8.508	9.256
16:1 trans-Hexadecenoic				0.157		0.165	0.179
16:1 Hexadecenoic (Palmitoleic)		8.398				8.817	9.589
17:0 Heptadecanoic (Margaric)	0.145					0.152	0.165
17:1 Heptadecenoic (Margaroleic)		0.204				0.213	0.232
18:0 Octadecanoic (Stearic)	1.695					1.770	1.935
18:1 trans-Octadecenoic (incl. Elaidic)				0.083		0.087	0.095
18:1 Octadecenoic (incl. Oleic)		19.780				20.669	22.585
18:2 trans-Octadecadienoic				0.104		0.109	0.119
18:2 Octadecadienoic (Linoleic)			2.214			2.314	2.527
20:0 Eicosanoic (Arachidic)	0.027					0.028	0.031
18:3 trans-Octadecatrienoic				0.072		0.075	0.082
18:3 g-Linolenic			0.029			0.031	0.033
20:1 trans-Eicosenoic						0.000	0.000
20:1 Eicosenoic (incl. Gadoleic)		12.304				12.806	14.048
18:3 Octadecatrienoic (Linolenic)			1.092			1.142	1.247
21:0 Heneicosanoic	0.007					0.007	0.008
18:2 conj Linoleic					0.084	0.088	0.096
18:4 Octadecatetraenoic (Moroctic)			2.096			2.192	2.393
20:2 Eicosadienoic			0.385			0.401	0.440
20:3 5,8,11-Eicosatrienoic						0.000	0.000
22:0 Docosanoic (Behenic)	0.097					0.101	0.111
20:3 8,11,14-Eicosatrienoic (gamma)			0.071			0.073	0.081
22:1 trans-Docosanoic (Brassicidic)				0.012		0.012	0.014

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CERTIFICATE OF ANALYSIS

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Illinois Laboratory**

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Tel. 877-777-6375 Fax. 312-729-1320

COA No:	CHG-38507821-0
Supersedes:	None
COA Date	11/16/15
Page 12 of 22	

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:	11/6/15

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

Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356881867	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
22:1 Cetoleic		5.263				5.460	6.009
22:1 Docosaenoic (Erucic)		0.696				0.722	0.795
20:3 11,14,17-Eicosatrienoic			0.158			0.164	0.180
20:4 Eicosatetraenoic (Arachidonic)			0.274			0.286	0.313
23:0 Tricosanoic						0.000	0.000
22:2 Docosadienoic			0.056			0.058	0.064
24:0 Tetracosanoic (Lignoceric)	0.012					0.012	0.013
20:5 Eicosapentaenoic			7.278			7.583	8.310
24:1 Tetracosanoic (Nervonic)		0.315				0.326	0.360
22:3 Docosatrienoic			0.009			0.009	0.010
22:4 Docosatetraenoic			0.056			0.058	0.064
22:5 Docosapentaenoic			0.935			0.971	1.068
22:6 Docosahexaenoic			11.362			11.841	12.973
Total (g per 100g)	13.78	47.05	26.01	0.66	0.08	91.48	100.00
% of Total Fatty Acid Concentration	15.73	53.72	29.70	0.76	0.10		

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Page 13 of 22	

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:	11/6/15

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

Analytical Results

Desc. 1: Brand C cod liver oil

Laboratory ID: 356881881
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	11/16/15	
<u>Fat Analysis by GC - Summary</u>					
Fat by Fatty Acid Profile	87.91	g/100g			
Total Saturated Fatty Acids	21.58	g/100g			
Total Monounsaturated Fatty Acids	34.28	g/100g			
Total Polyunsaturated Fatty Acids	27.30	g/100g			
Total Trans Fatty Acids	0.82	g/100g			
Total Conjugated Fatty Acids	0.09	g/100g			

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COA No:	CHG-38507821-0
Supersedes:	None
COA Date	11/16/15
Page 14 of 22	

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:	11/6/15

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

Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356881881	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
4:0 Butanoic (Butyric)	0.029					0.033	0.035
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)	0.572					0.623	0.681
9:0 Nonanoic (Pelargonic)						0.000	0.000
10:0 Decanoic (Capric)	0.207					0.222	0.246
11:0 Undecanoic						0.000	0.000
12:0 Dodecanoic (Lauric)	0.063					0.067	0.075
12:1 Dodecenoic						0.000	0.000
14:0 Tetradecanoic (Myristic)	5.030					5.309	5.981
14:1 trans-Tetradecenoic				0.205		0.217	0.244
14:1 Tetradecenoic (Myristoleic)		0.079				0.084	0.094
15:0 Pentadecanoic	0.379					0.399	0.451
15:1 Pentadecenoic						0.000	0.000
16:0 Hexadecanoic (Palmitic)	12.879					13.516	15.317
16:1 trans-Hexadecenoic				0.179		0.187	0.212
16:1 Hexadecenoic (Palmitoleic)		6.361				6.678	7.565
17:0 Heptadecanoic (Margaric)	0.251					0.263	0.298
17:1 Heptadecenoic (Margaroleic)		0.213				0.223	0.253
18:0 Octadecanoic (Stearic)	1.933					2.020	2.299
18:1 trans-Octadecenoic (incl. Elaidic)				0.158		0.165	0.188
18:1 Octadecenoic (incl. Oleic)		15.797				16.506	18.787
18:2 trans-Octadecadienoic				0.211		0.221	0.251
18:2 Octadecadienoic (Linoleic)			2.209			2.309	2.627
20:0 Eicosanoic (Arachidic)	0.129					0.134	0.153
18:3 trans-Octadecatrienoic				0.043		0.045	0.051
18:3 g-Linolenic			0.041			0.042	0.048
20:1 trans-Eicosenoic						0.000	0.000
20:1 Eicosenoic (incl. Gadoleic)		5.185				5.397	6.166
18:3 Octadecatrienoic (Linolenic)			1.084			1.133	1.289
21:0 Heneicosanoic	0.024					0.025	0.028
18:2 conj Linoleic					0.093	0.098	0.111
18:4 Octadecatetraenoic (Moroctic)			2.260			2.364	2.688
20:2 Eicosadienoic			0.355			0.369	0.422
20:3 5,8,11-Eicosatrienoic						0.000	0.000
22:0 Docosanoic (Behenic)	0.062					0.065	0.074
20:3 8,11,14-Eicosatrienoic (gamma)			0.088			0.092	0.105
22:1 trans-Docosanoic (Brassicidic)				0.027		0.028	0.032

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COA No:	CHG-38507821-0
Supersedes:	None
COA Date	11/16/15
Page 15 of 22	

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:	11/6/15

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

Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356881881	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
22:1 Cetoleic		5.442				5.646	6.472
22:1 Docosaenoic (Erucic)		0.692				0.718	0.823
20:3 11,14,17-Eicosatrienoic			0.227			0.236	0.270
20:4 Eicosatetraenoic (Arachidonic)			0.556			0.579	0.661
23:0 Tricosanoic						0.000	0.000
22:2 Docosadienoic			0.061			0.063	0.072
24:0 Tetracosanoic (Lignoceric)	0.024					0.025	0.028
20:5 Eicosapentaenoic			10.034			10.455	11.933
24:1 Tetracosanoic (Nervonic)		0.515				0.533	0.613
22:3 Docosatrienoic			0.031			0.032	0.037
22:4 Docosatetraenoic			0.073			0.076	0.087
22:5 Docosapentaenoic			0.980			1.018	1.166
22:6 Docosahexaenoic			9.306			9.699	11.067
Total (g per 100g)	21.58	34.28	27.30	0.82	0.09	87.91	100.00
% of Total Fatty Acid Concentration	25.67	40.77	32.47	0.98	0.11		

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COA No:	CHG-38507821-0
Supersedes:	None
COA Date	11/16/15
Page 16 of 22	

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:	11/6/15

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

Analytical Results

Desc. 1: FCL0 12732

Laboratory ID: 356881889
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	11/16/15	
<u>Fat Analysis by GC - Summary</u>					
Fat by Fatty Acid Profile	90.30	g/100g			
Total Saturated Fatty Acids	15.49	g/100g			
Total Monounsaturated Fatty Acids	42.45	g/100g			
Total Polyunsaturated Fatty Acids	27.79	g/100g			
Total Trans Fatty Acids	0.61	g/100g			
Total Conjugated Fatty Acids	0.08	g/100g			

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Supersedes:	None
COA Date	11/16/15
Page 17 of 22	

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:	11/6/15

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

Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356881889	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
4:0 Butanoic (Butyric)	0.031					0.036	0.036
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)	0.007					0.007	0.008
9:0 Nonanoic (Pelargonic)						0.000	0.000
10:0 Decanoic (Capric)	0.026					0.028	0.030
11:0 Undecanoic						0.000	0.000
12:0 Dodecanoic (Lauric)	0.030					0.032	0.034
12:1 Dodecenoic						0.000	0.000
14:0 Tetradecanoic (Myristic)	3.731					3.938	4.317
14:1 trans-Tetradecenoic				0.110		0.117	0.128
14:1 Tetradecenoic (Myristoleic)		0.097				0.102	0.112
15:0 Pentadecanoic	0.214					0.225	0.247
15:1 Pentadecenoic						0.000	0.000
16:0 Hexadecanoic (Palmitic)	9.288					9.747	10.746
16:1 trans-Hexadecenoic				0.094		0.099	0.109
16:1 Hexadecenoic (Palmitoleic)		6.574				6.901	7.606
17:0 Heptadecanoic (Margaric)	0.102					0.106	0.118
17:1 Heptadecenoic (Margaroleic)		0.164				0.171	0.189
18:0 Octadecanoic (Stearic)	1.909					1.994	2.209
18:1 trans-Octadecenoic (incl. Elaidic)				0.200		0.209	0.231
18:1 Octadecenoic (incl. Oleic)		23.937				25.012	27.697
18:2 trans-Octadecadienoic				0.118		0.123	0.136
18:2 Octadecadienoic (Linoleic)			1.342			1.403	1.553
20:0 Eicosanoic (Arachidic)	0.064					0.067	0.074
18:3 trans-Octadecatrienoic				0.041		0.043	0.047
18:3 g-Linolenic			0.022			0.023	0.026
20:1 trans-Eicosenoic						0.000	0.000
20:1 Eicosenoic (incl. Gadoleic)		6.306				6.564	7.297
18:3 Octadecatrienoic (Linolenic)			0.936			0.979	1.083
21:0 Heneicosanoic	0.021					0.022	0.024
18:2 conj Linoleic					0.077	0.080	0.089
18:4 Octadecatetraenoic (Moroctic)			2.459			2.572	2.845
20:2 Eicosadienoic			0.345			0.359	0.399
20:3 5,8,11-Eicosatrienoic						0.000	0.000
22:0 Docosanoic (Behenic)	0.050					0.052	0.058
20:3 8,11,14-Eicosatrienoic (gamma)			0.063			0.066	0.073
22:1 trans-Docosanoic (Brassicidic)				0.052		0.054	0.060

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 Tel. 877-777-6375 Fax. 312-729-1320

COA No:	CHG-38507821-0
Supersedes:	None
COA Date	11/16/15
Page 18 of 22	

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:	11/6/15

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

Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356881889	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
22:1 Cetoleic		4.552				4.722	5.267
22:1 Docosaenoic (Erucic)		0.511				0.530	0.591
20:3 11,14,17-Eicosatrienoic			0.215			0.224	0.249
20:4 Eicosatetraenoic (Arachidonic)			0.357			0.371	0.413
23:0 Tricosanoic						0.000	0.000
22:2 Docosadienoic			0.048			0.050	0.056
24:0 Tetracosanoic (Lignoceric)	0.014					0.015	0.017
20:5 Eicosapentaenoic			13.340			13.899	15.435
24:1 Tetracosanoic (Nervonic)		0.313				0.324	0.363
22:3 Docosatrienoic			0.010			0.011	0.012
22:4 Docosatetraenoic			0.045			0.047	0.052
22:5 Docosapentaenoic			0.838			0.870	0.969
22:6 Docosahexaenoic			7.774			8.103	8.995
Total (g per 100g)	15.49	42.45	27.79	0.61	0.08	90.30	100.00
% of Total Fatty Acid Concentration	17.92	49.12	32.16	0.71	0.09		

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COA No:	CHG-38507821-0
Supersedes:	None
COA Date	11/16/15
Page 19 of 22	

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:	11/6/15

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

Analytical Results

Desc. 1: FCL0 15348

Laboratory ID: 356881896
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	11/16/15	
<u>Fat Analysis by GC - Summary</u>					
Fat by Fatty Acid Profile	92.22	g/100g			
Total Saturated Fatty Acids	13.60	g/100g			
Total Monounsaturated Fatty Acids	48.25	g/100g			
Total Polyunsaturated Fatty Acids	25.76	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

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

COA No:	CHG-38507821-0
Supersedes:	None
COA Date	11/16/15
Page 20 of 22	

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:	11/6/15

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

Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356881896	
	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)	0.017					0.018	0.020
12:1 Dodecenoic						0.000	0.000
14:0 Tetradecanoic (Myristic)	2.341					2.471	2.652
14:1 trans-Tetradecenoic				0.111		0.117	0.126
14:1 Tetradecenoic (Myristoleic)		0.073				0.077	0.083
15:0 Pentadecanoic	0.248					0.261	0.280
15:1 Pentadecenoic						0.000	0.000
16:0 Hexadecanoic (Palmitic)	8.583					9.008	9.722
16:1 trans-Hexadecenoic				0.166		0.174	0.188
16:1 Hexadecenoic (Palmitoleic)		9.567				10.044	10.837
17:0 Heptadecanoic (Margaric)	0.108					0.113	0.123
17:1 Heptadecenoic (Margaroleic)		0.301				0.315	0.340
18:0 Octadecanoic (Stearic)	2.158					2.255	2.445
18:1 trans-Octadecenoic (incl. Elaidic)				0.223		0.233	0.253
18:1 Octadecenoic (incl. Oleic)		24.535				25.637	27.792
18:2 trans-Octadecadienoic				0.133		0.139	0.150
18:2 Octadecadienoic (Linoleic)			1.046			1.094	1.185
20:0 Eicosanoic (Arachidic)	0.061					0.064	0.069
18:3 trans-Octadecatrienoic						0.000	0.000
18:3 g-Linolenic			0.027			0.028	0.031
20:1 trans-Eicosenoic				0.008		0.008	0.009
20:1 Eicosenoic (incl. Gadoleic)		9.518				9.907	10.782
18:3 Octadecatrienoic (Linolenic)			0.348			0.363	0.394
21:0 Heneicosanoic	0.020					0.021	0.023
18:2 conj Linoleic					0.018	0.018	0.020
18:4 Octadecatetraenoic (Moroctic)			1.101			1.151	1.247
20:2 Eicosadienoic			0.260			0.270	0.294
20:3 5,8,11-Eicosatrienoic						0.000	0.000
22:0 Docosanoic (Behenic)	0.051					0.053	0.058
20:3 8,11,14-Eicosatrienoic (gamma)			0.077			0.080	0.087
22:1 trans-Docosanoic (Brassicidic)				0.012		0.013	0.014

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Analytical Results

Fat Analysis by GC Fatty Acids	% Fatty Acid in Product (Weight/Weight Basis)					Laboratory ID: 356881896	
	Saturated	Cis MUFA	Cis PUFA	Trans	Conjugated	% as Triglyceride	% FA of Total FA
22:1 Cetoleic		3.484				3.614	3.946
22:1 Docosaenoic (Erucic)		0.465				0.483	0.527
20:3 11,14,17-Eicosatrienoic			0.077			0.081	0.088
20:4 Eicosatetraenoic (Arachidonic)			0.717			0.747	0.812
23:0 Tricosanoic						0.000	0.000
22:2 Docosadienoic			0.033			0.034	0.038
24:0 Tetracosanoic (Lignoceric)	0.009					0.010	0.011
20:5 Eicosapentaenoic			10.633			11.079	12.045
24:1 Tetracosanoic (Nervonic)		0.309				0.319	0.350
22:3 Docosatrienoic						0.000	0.000
22:4 Docosatetraenoic			0.123			0.128	0.140
22:5 Docosapentaenoic			1.570			1.630	1.779
22:6 Docosahexaenoic			9.748			10.159	11.041
Total (g per 100g)	13.60	48.25	25.76	0.65	0.02	92.22	100.00
% of Total Fatty Acid Concentration	15.40	54.66	29.18	0.74	0.02		

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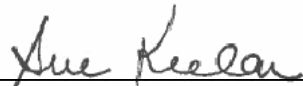
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Analytical Results



Sue Keelan Acting QA Manager

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