



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

GPP
DAVID WETZEL
BOX 486
ONEILL NE 68763

REPORT OF ANALYSIS

For: (37672) GPP
SAMPLE ANALYSIS

| Analysis | Level Found | Units | Reporting | Method | Analyst-Date | Verified-Date |
|--|-------------|-------|-----------|---------------|-----------------|-----------------|
| | As Received | | Limit | | | |
| Sample ID: CLO SALMPLE C Lab Number: 2460600 | | | | | | |
| Butyric (C4:0) | n.d. | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Caproic (C6:0) | n.d. | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Caprylic (C8:0) | 0.39 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Capric (C10:0) | 0.25 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Lauric (C12:0) | 0.10 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Tridecanoic (C13:0) | 0.04 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Myristic (C14:0) | 8.72 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Myristoleic (C14:1 Cis) | 0.08 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Pentadecanoic (C15:0) | 0.57 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Palmitic (C16:0) | 18.2 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Palmitoleic (C16:1 Cis) | 8.05 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Heptadecanoic (C17:0) | 0.364 | % | 0.010 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| 10-Heptadecanoic (C17:1) | 0.25 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Stearic (C18:0) | 2.63 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Eliadic (C18:1 Trans) | n.d. | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Oleic (C18:1 Cis) | 19.2 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Linoleic (C18:2 Trans) | 0.09 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |

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

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|---------------------------------|------------------------------------|-------|-----------|---------------|------------------|-------------------|
| | As Received | | Limit | | | |
| Sample ID: CLO SALMPLE C | Lab Number: 2460600 (con't) | | | | | |
| Linoleic (C18:2 Cis) | 2.68 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| gamma-Linolenic (C18:3 gamma) | 0.17 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Nonadecanoic (C19:0) | 0.06 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| alpha-Linolenic (C18:3 alpha) | 2.03 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Arachidic (C20:0) | 0.20 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| 11-Eicosenoic (C20:1) | 3.11 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| 11-14 Eicosadienoic (C20:2) | 0.43 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Homo-gamma linolenic (C20:3) | 0.13 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| 11-14-17 Eicosatrienoic (C20:3) | 0.22 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Arachidonic (C20:4) | 0.95 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Eicosapentaenoic (C20:5) | 14.4 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Heneicosanoic (C21:0) | n.d. | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Behenic (C22:0) | 0.11 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Erucic (C22:1) | 0.40 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Docosadienoic (C22:2) | 0.07 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Docosapentaenoic (C22:5) | 1.50 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Docosahexaenoic (C22:6) | 13.5 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Tricosanoic (C23:0) | n.d. | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Lignoceric (C24:0) | n.d. | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |

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For: (37672) GPP
 SAMPLE ANALYSIS

| Analysis | Level Found | Units | Reporting | Method | Analyst-Date | Verified-Date |
|---------------------------------|------------------------------------|-------|-----------|---------------|-----------------|-----------------|
| | As Received | | Limit | | | |
| Sample ID: CLO SALMPLE C | Lab Number: 2460600 (con't) | | | | | |
| Nervonic (C24:1) | 0.88 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Saturated fat (total) | 31.6 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Polyunsaturated fats (total) | 36.1 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Monounsaturated fats (total) | 32.0 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Trans fatty acids (total) | 0.26 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Omega 3 fatty acids (total) | 31.6 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Omega 6 fatty acids (total) | 4.25 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |
| Omega 9 fatty acids (total) | 19.6 | % | 0.01 | AOAC 996.06 * | amw7-2015/11/03 | tjp8-2015/11/04 |

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

15-308-4081

REPORT DATE
Nov 04, 2015

RECEIVED DATE
Nov 02, 2015

SEND TO
37672



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PAGE 4/4

ISSUE DATE
Nov 04, 2015

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REPORT OF ANALYSIS

For: (37672) GPP
SAMPLE ANALYSIS

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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