



Ordering Physician:

Metamatrix

1234 Main St  
Anywhere, GA 30096

Accession Number: **A1011030002**

Reference Number:

Patient: Sample Report

Age: 48 Sex: Female

Date of Birth: 02/05/1962

Date Collected: 11/2/10

Date Received: 11/3/10

Report Date: 11/3/10

Telephone: (770) 446-4583

Fax: (770) 441-2237

Reprinted: 5/8/12

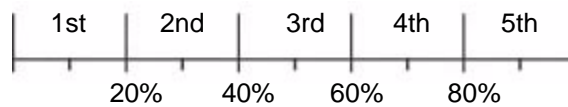
Comment:

**0040 Fatty Acids - Plasma**

Methodology: Capillary Gas Chromatography/Mass Spectrometry

Ranges are for ages 13 and over

**Percentile Ranking by Quintile**



**95%  
Reference  
Interval**

**Polyunsaturated Omega-3**

| Results | uM                        | Percentile  | 95% Reference Interval |
|---------|---------------------------|-------------|------------------------|
| 1       | Alpha Linolenic (18:3n3)  | 23          | 13 - 80                |
| 2       | Eicosapentaenoic (20:5n3) | 25          | 5 - 210                |
| 3       | Docosapentaenoic (22:5n3) | 18          | 11 - 50                |
| 4       | Docosahexaenoic (22:6n3)  | 42 <b>L</b> | 31 - 213               |

**Polyunsaturated Omega-6**

|    |                                |              |             |
|----|--------------------------------|--------------|-------------|
| 5  | Linoleic (18:2n6)              | 1,121        | 821 - 2,032 |
| 6  | Gamma Linolenic (18:3n6)       | 7            | 5 - 46      |
| 7  | Eicosadienoic (20:2n6)         | 4.3 <b>L</b> | 5.2 - 22.5  |
| 8  | Dihomogamma Linolenic (20:3n6) | 45           | 27 - 140    |
| 9  | Arachidonic (20:4n6)           | 452 <b>H</b> | 158 - 521   |
| 10 | Docosadienoic (22:2n6)         | <0.23        | <= 2.0      |
| 11 | Docosatetraenoic (22:4n6)      | 4.9          | 2.6 - 18.1  |

**Polyunsaturated Omega-9**

|    |               |     |        |
|----|---------------|-----|--------|
| 12 | Mead (20:3n9) | 2.2 | <= 8.3 |
|----|---------------|-----|--------|

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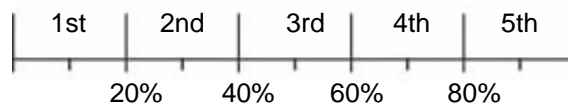
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**Percentile Ranking by Quintile**



**95%  
Reference  
Interval**

**Monounsaturated**

|                           | Results<br>uM |             |             |
|---------------------------|---------------|-------------|-------------|
| 13 Myristoleic (14:1n5)   | 1.4           | 1.2 - 6.1   | 0.8 - 9.7   |
| 14 Palmitoleic (16:1n7)   | 51            | 40 - 155    | 30 - 256    |
| 15 Vaccenic (18:1n7)      | 60            | 48 - 93     | 40 - 122    |
| 16 Oleic (18:1n9)         | 1,002         | 555 - 1,182 | 466 - 1,470 |
| 17 11-Eicosenoic (20:1n9) | 5.1           | 4.6 - 10.3  | 3.7 - 18.1  |
| 18 Nervonic (24:1n9)      | 1.4           | 1.1 - 2.2   | 1.1 - 2.4   |

**Saturated**

|                        |                |             |             |
|------------------------|----------------|-------------|-------------|
| 19 Capric (10:0)       | 1.8            | 1.4 - 4.0   | 0.7 - 6.2   |
| 20 Lauric (12:0)       | 7.5            | 3.3 - 14.5  | 2.2 - 27.3  |
| 21 Myristic (14:0)     | 60             | 20 - 87     | 15 - 139    |
| 22 Palmitic (16:0)     | 1,801 <b>H</b> | 792 - 1,794 | 667 - 2,526 |
| 23 Stearic (18:0)      | 325            | 294 - 511   | 250 - 629   |
| 24 Arachidic (20:0)    | 1.8            | 1.5 - 3.2   | 1.3 - 4.7   |
| 25 Behenic (22:0)      | 1.5            | 0.8 - 2.0   | 0.6 - 2.9   |
| 26 Lignoceric (24:0)   | 0.99           | 0.84 - 1.66 | 0.63 - 2.45 |
| 27 Hexacosanoic (26:0) | <0.27          | 0.36        | <= 0.43     |



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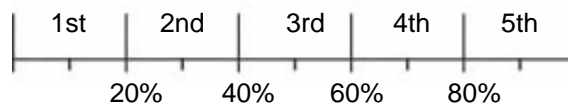
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**Percentile Ranking by Quintile**



**95%  
Reference  
Interval**

Odd Chain

|                         | Results<br>uM |      |  |         |
|-------------------------|---------------|------|--|---------|
| 28 Pentadecanoic (15:0) | 10.5          | 14.5 |  | <= 20.6 |
| 29 Heptadecanoic (17:0) | 16.5          | 19.3 |  | <= 24.4 |
| 30 Nonadecanoic (19:0)  | 1.20          | 1.51 |  | <= 1.89 |
| 31 Heneicosanoic (21:0) | 0.48          | 0.50 |  | <= 0.74 |
| 32 Tricosanoic (23:0)   | 0.45          | 0.62 |  | <= 0.78 |

Trans

|                            |              |     |  |        |
|----------------------------|--------------|-----|--|--------|
| 33 Palmitelaidic (16:1n7t) | 0.5 <b>H</b> | 0.4 |  | <= 1.8 |
| 34 Total C:18 Trans        | 40           | 42  |  | <= 59  |

Ratios

|                    |       |       |  |             |
|--------------------|-------|-------|--|-------------|
| 35 LA/DGLA         | 22    | 30    |  | 11 - 46     |
| 36 EPA/DGLA        | 0.29  | 0.24  |  | 0.07 - 5.98 |
| 37 AA/EPA          | 18    | 20    |  | 1 - 57      |
| 38 Triene/Tetraene | 0.005 | 0.016 |  | <= 0.023    |

UC\* = Unable to Calculate