

*Accession Number:* **A0904030310**

*Reference Number:*

*Patient:* **Sample Report**

*Age:* 47 *Sex:* Female

*Date of Birth:* 02/05/1962

*Date Collected:* 4/2/09

*Date Received:* 4/3/09

*Report Date:* 4/3/09

*Telephone:* (770) 446-4583

*Fax:* (770) 441-2237

*Reprinted:* 5/6/09

*Comment:*

*Ordering Physician:*

Metamatrix

3425 Corporate Way

Duluth, GA 30096

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## **0041 Fatty Acids - Erythrocytes**

Reference ranges have been changed due to method improvements.

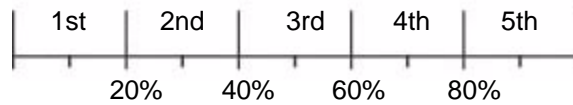
Ordering Physician:  
 Metametrix

3425 Corporate Way  
 Duluth, GA 30096

**0041 Fatty Acids - Erythrocytes**

Methodology: Capillary Gas Chromatography/Mass Spectrometry

**Percentile Ranking by Quintile**



**95%  
 Reference  
 Interval**

**Polyunsaturated Omega-3**

Results  
 uM

Acid	Result	Percentile	95% Reference Interval
1 Alpha Linolenic (18:3n3)	2.0	1.5	1.2 - 7.9
2 Eicosapentaenoic (20:5n3)	8	8	3 - 71
3 Docosapentaenoic (22:5n3)	26 <b>L</b>	30	19 - 87
4 Docosahexaenoic (22:6n3)	57	55	26 - 172

**Polyunsaturated Omega-6**

5 Linoleic (18:2n6)	100	176	<= 208
6 Gamma Linolenic (18:3n6)	0.55	0.40 - 1.37	0.40 - 1.86
7 Eicosadienoic (20:2n6)	3.3	2.1 - 6.0	1.8 - 7.1
8 Dihomogamma Linolenic (20:3n6)	13.3	11.4 - 34.5	10.5 - 42.7
9 Arachidonic (20:4n6)	390	187 - 444	152 - 501
10 Docosadienoic (22:2n6)	<0.5	0.95	<= 1.15
11 Docosatetraenoic (22:4n6)	24	18 - 73	13 - 86

**Polyunsaturated Omega-9**

12 Mead (20:3n9)	<0.76	1.34	<= 2.19
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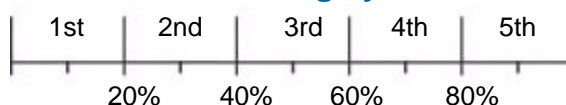
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**0041 Fatty Acids - Erythrocytes**

Methodology: Capillary Gas Chromatography/Mass Spectrometry

**Percentile Ranking by Quintile**



**95%  
Reference  
Interval**

**Monounsaturated**

Results	uM	Percentile Ranking	95% Reference Interval
13 Myristoleic (14:1n5)	<0.3	0.52	<= 0.63
14 Palmitoleic (16:1n7)	4.8	9.8	<= 12.5
15 Vaccenic (18:1n7)	11.2 <b>L</b>	11.5 - 27.0	8.7 - 34.9
16 Oleic (18:1n9)	223	212 - 451	189 - 515
17 11-Eicosenoic (20:1n9)	2.3	2.2 - 6.3	2.0 - 7.5
18 Nervonic (24:1n9)	<3.6	4.4	<= 5.2

**Saturated**

19 Capric (10:0)	<0.2	0.85	<= 0.95
20 Lauric (12:0)	<0.95	1.15	<= 1.36
21 Myristic (14:0)	<4.4	7.7	<= 9.0
22 Palmitic (16:0)	675 <b>H</b>	365 - 670	319 - 735
23 Stearic (18:0)	578 <b>H</b>	322 - 576	278 - 607
24 Arachidic (20:0)	2.0	1.0 - 2.4	0.9 - 2.7
25 Behenic (22:0)	0.66	1.83	<= 2.16
26 Lignoceric (24:0)	1.5	0.8 - 3.9	0.7 - 4.7
27 Hexacosanoic (26:0)	0.25	0.23 - 0.69	0.16 - 0.81

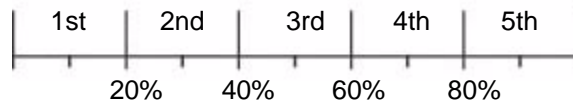
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**0041 Fatty Acids - Erythrocytes**

Methodology: Capillary Gas Chromatography/Mass Spectrometry

**Percentile Ranking by Quintile**



**95%  
 Reference  
 Interval**

**Odd Chain**

Results	uM	Percentile Ranking	95% Reference Interval
28 Pentadecanoic (15:0)	2.7	3.6	<= 4.3
29 Heptadecanoic (17:0)	3.9	8.3	<= 9.9
30 Nonadecanoic (19:0)	1.26 <b>H</b>	0.93	<= 1.16
31 Heneicosanoic (21:0)	<0.18	0.18	<= 0.19
32 Tricosanoic (23:0)	0.52 <b>H</b>	0.22	<= 0.28

**Trans**

33 Palmitelaidic (16:1n7t)	0.85 <b>H</b>	0.71	<= 1.06
34 Total C:18 Trans	17.0 <b>H</b>	16.8	<= 23.8

**Ratios**

35 LA/DGLA	25	214	<= 359
36 EPA/DGLA	0.60	0.40	0.17 - 4.45
37 AA/EPA	16	37	3 - 84
38 Stearic/Oleic	1.32	1.25	>= 1.16

· These guidelines are intended as a starting point for the clinician who requested the test and are based only on the laboratory results included in this report. Final recommendations should be implemented by the clinician with consideration of medical history and current clinical observations.  
 · These tests are not intended for the diagnosis of specific disorders.