

Client: Example Client ABC123  
123 Test Drive  
Salt Lake City, UT 84108  
UNITED STATES

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 6/26/2011  
**Sex:** Male  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 01/01/2017 12:34

**Fatty Acids Profile, Essential Serum or Plasma**

ARUP test code 2013518

Interpretation, Fatty Acids Profile SP

See Note

In this sample the concentration of omega-9 mead acid and the Triene/Tetraene ratio were markedly increased suggestive of nutritional deficiency of essential fatty acids. Note elevated concentrations of several mono-unsaturated fatty acids, possibly reflecting dietary supplements.

INTERPRETIVE INFORMATION: Fatty Acids Profile, Essential Ser/Plas

This test does not screen for disorders of peroxisomal biogenesis/function.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

|                            |                    |          |                                 |
|----------------------------|--------------------|----------|---------------------------------|
| Arachidic Acid, C20:0      | 19 nmol/mL         |          | (Ref Interval: 8-43)            |
| Arachidonic Acid, C20:4w6  | <b>271 nmol/mL</b> | <b>L</b> | <b>(Ref Interval: 310-1420)</b> |
| DHA, C22:6w3               | 65 nmol/mL         |          | (Ref Interval: 45-365)          |
| DPA, C22:5w3               | 43 nmol/mL         |          | (Ref Interval: 13-75)           |
| DPA, C22:5w6               | 18 nmol/mL         |          | (Ref Interval: 6-55)            |
| DTA, C22:4w6               | 14 nmol/mL         |          | (Ref Interval: 10-40)           |
| Docosenoic Acid, C22:1     | 6 nmol/mL          |          | (Ref Interval: 1-10)            |
| EPA, C20:5w3               | 71 nmol/mL         |          | (Ref Interval: 8-130)           |
| Hexadecenoic Acid, C16:1w9 | <b>113 nmol/mL</b> | <b>H</b> | <b>(Ref Interval: 14-95)</b>    |
| Lauric Acid, C12:0         | 9 nmol/mL          |          | (Ref Interval: 1-200)           |
| Linoleic Acid, C18:2w6     | 1489 nmol/mL       |          | (Ref Interval: 1210-4300)       |

H=High, L=Low, \*=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com  
500 Chipeta Way, Salt Lake City, UT 84108-1221  
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example  
ARUP Accession: 22-017-101119  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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|                            |                    |          |                                    |
|----------------------------|--------------------|----------|------------------------------------|
| a-Linolenic Acid, C18:3w3  | 45 nmol/mL         |          | (Ref Interval: 20-200)             |
| h-g-Linolenic C20:3w6      | 173 nmol/mL        |          | (Ref Interval: 45-340)             |
| g-Linolenic Acid, C18:3w6  | 91 nmol/mL         |          | (Ref Interval: 10-120)             |
| Mead Acid, C20:3w9         | <b>111 nmol/mL</b> | <b>H</b> | <b>(Ref Interval: 1-35)</b>        |
| Myristic Acid, C14:0       | 123 nmol/mL        |          | (Ref Interval: 20-520)             |
| Nervonic Acid, C24:1w9     | <b>148 nmol/mL</b> | <b>H</b> | <b>(Ref Interval: 35-145)</b>      |
| Oleic Acid, C18:1w9        | 2738 nmol/mL       |          | (Ref Interval: 740-3900)           |
| Palmitic Acid, C16:0       | 2865 nmol/mL       |          | (Ref Interval: 1090-3840)          |
| Palmitoleic Acid, C16:1w7  | <b>825 nmol/mL</b> | <b>H</b> | <b>(Ref Interval: 35-580)</b>      |
| Stearic Acid, C18:0        | 699 nmol/mL        |          | (Ref Interval: 280-1250)           |
| Vaccenic Acid, C18:1w7     | <b>294 nmol/mL</b> | <b>H</b> | <b>(Ref Interval: 50-250)</b>      |
| Triene Tetraene Ratio      | <b>0.410</b>       | <b>H</b> | <b>(Ref Interval: 0.004-0.051)</b> |
| Total Saturated Acid       | 3.7 mmol/L         |          | (Ref Interval: 1.5-5.3)            |
| Total Monounsaturated Acid | 4.1 mmol/L         |          | (Ref Interval: 0.9-4.7)            |
| Total Polyunsaturated Acid | 2.4 mmol/L         |          | (Ref Interval: 2.1-6.2)            |
| Total w3                   | 0.22 mmol/L        |          | (Ref Interval: 0.12-0.55)          |
| Total w6                   | 2.1 mmol/L         |          | (Ref Interval: 1.8-5.7)            |
| Total Fatty Acids          | 10.2 mmol/L        |          | (Ref Interval: 4.5-15.0)           |

**EER Fatty Acids Profile, Essential SP**

See Note

Access ARUP Enhanced Report using the link below:

-Direct access:

VERIFIED/REPORTED DATES

| Procedure                              | Accession     | Collected            | Received             | Verified/Reported    |
|--|---------------|----------------------|----------------------|----------------------|
| Interpretation, Fatty Acids Profile SP | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Arachidic Acid, C20:0                  | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Arachidonic Acid, C20:4w6              | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| DHA, C22:6w3                           | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| DPA, C22:5w3                           | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| DPA, C22:5w6                           | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| DTA, C22:4w6                           | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |

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|                                       |               |                      |                      |                      |
|---------------------------------------|---------------|----------------------|----------------------|----------------------|
| Docosenoic Acid, C22:1                | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| EPA, C20:5w3                          | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Hexadecenoic Acid, C16:1w9            | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Lauric Acid, C12:0                    | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Linoleic Acid, C18:2w6                | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| α-Linolenic Acid, C18:3w3             | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| h-g-Linolenic C20:3w6                 | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| g-Linolenic Acid, C18:3w6             | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Mead Acid, C20:3w9                    | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Myristic Acid, C14:0                  | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Nervonic Acid, C24:1w9                | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Oleic Acid, C18:1w9                   | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Palmitic Acid, C16:0                  | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Palmitoleic Acid, C16:1w7             | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Stearic Acid, C18:0                   | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Vaccenic Acid, C18:1w7                | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Triene Tetraene Ratio                 | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Total Saturated Acid                  | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Total Monounsaturated Acid            | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Total Polyunsaturated Acid            | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Total w3                              | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Total w6                              | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| Total Fatty Acids                     | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |
| EER Fatty Acids Profile, Essential SP | 22-017-101119 | 1/17/2022 8:36:00 AM | 1/18/2022 5:53:35 AM | 1/21/2022 4:53:00 PM |

END OF CHART

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