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|------------------------------------------------|-----------------------------------------|--------------------------------------|--------------|------------|
| Patient ID<br>SA00720122                       | Patient Name<br>SAMPLEREPORT, FAPEP NML | Birth Date<br>2020-06-20             | Gender<br>F  | Age<br>2 M |
| Order Number<br>SA00720122                     | Client Order Number<br>SA00720122       | Ordering Physician<br>CLIENT, CLIENT | Report Notes |            |
| Account Information<br>C7028846 DLMP Rochester |                                         | Collected<br>25 Aug 2020 12:00       |              |            |

## Fatty Acid Profile, Essential, S

|                                   |                                     |                                  |                                    |
|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| <b>Lauric Acid, C12:0</b>         | MCR<br>Reference Value<br>6-190     | <b>Stearic Acid, C18:0</b>       | MCR<br>Reference Value<br>270-1140 |
| 52 nmol/mL                        |                                     | 531 nmol/mL                      |                                    |
| <b>Myristic Acid, C14:0</b>       | MCR<br>Reference Value<br>30-320    | <b>EPA, C20:5w3</b>              | MCR<br>Reference Value<br>2-60     |
| 32 nmol/mL                        |                                     | 52 nmol/mL                       |                                    |
| <b>Hexadecenoic Acid, C16:1w9</b> | MCR<br>Reference Value<br>21-69     | <b>Arachidonic Acid, C20:4w6</b> | MCR<br>Reference Value<br>110-1110 |
| 22 nmol/mL                        |                                     | 622 nmol/mL                      |                                    |
| <b>Palmitoleic Acid, C16:1w7</b>  | MCR<br>Reference Value<br>20-1020   | <b>Mead Acid, C20:3w9</b>        | MCR<br>Reference Value<br>3-24     |
| 66 nmol/mL                        |                                     | 22 nmol/mL                       |                                    |
| <b>Palmitic Acid, C16:0</b>       | MCR<br>Reference Value<br>720-3120  | <b>h-g-Linolenic, C20:3w6</b>    | MCR<br>Reference Value<br>30-170   |
| 866 nmol/mL                       |                                     | 63 nmol/mL                       |                                    |
| <b>g-Linolenic Acid, C18:3w6</b>  | MCR<br>Reference Value<br>6-110     | <b>Arachidic Acid, C20:0</b>     | MCR<br>Reference Value<br>30-120   |
| 23 nmol/mL                        |                                     | 115 nmol/mL                      |                                    |
| <b>a-Linolenic Acid, C18:3w3</b>  | MCR<br>Reference Value<br>10-190    | <b>DHA, C22:6w3</b>              | MCR<br>Reference Value<br>10-220   |
| 65 nmol/mL                        |                                     | 56 nmol/mL                       |                                    |
| <b>Linoleic Acid, C18:2w6</b>     | MCR<br>Reference Value<br>1000-3300 | <b>DPA, C22:5w6</b>              | MCR<br>Reference Value<br>3-70     |
| 1832 nmol/mL                      |                                     | 62 nmol/mL                       |                                    |
| <b>Oleic Acid, C18:1w9</b>        | MCR<br>Reference Value<br>250-3500  | <b>DPA, C22:5w3</b>              | MCR<br>Reference Value<br>6-110    |
| 2350 nmol/mL                      |                                     | 95 nmol/mL                       |                                    |
| <b>Vaccenic Acid, C18:1w7</b>     | MCR<br>Reference Value<br>140-720   | <b>DTA, C22:4w6</b>              | MCR<br>Reference Value<br>2-50     |
| 641 nmol/mL                       |                                     | 45 nmol/mL                       |                                    |

### Performing Site Legend

| Code | Laboratory                                       | Address                                  | Lab Director                | CLIA Certificate |
|------|--------------------------------------------------|------------------------------------------|-----------------------------|------------------|
| MCR  | Mayo Clinic Laboratories - Rochester Main Campus | 200 First Street SW, Rochester, MN 55905 | William G. Morice M.D. Ph.D | 24D0404292       |

|                                                |                                         |                                      |              |            |
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|                                   |                                |                                                                                                                                                                                                                                |                                    |
|-----------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Docosenoic Acid, C22:1</b>     | MCR                            | <b>Total w3</b>                                                                                                                                                                                                                | MCR                                |
| 20 nmol/mL                        | Reference Value<br>2-20        | 0.0 mmol/L                                                                                                                                                                                                                     | Reference Value<br>0.0-0.4         |
| <b>Nervonic Acid, C24:1w9</b>     | MCR                            | <b>Total w6</b>                                                                                                                                                                                                                | MCR                                |
| 36 nmol/mL                        | Reference Value<br>30-150      | 1.7 mmol/L                                                                                                                                                                                                                     | Reference Value<br>0.9-4.4         |
| <b>Triene Tetraene Ratio</b>      | MCR                            | <b>Total Fatty Acids</b>                                                                                                                                                                                                       | MCR                                |
| 0.015                             | Reference Value<br>0.013-0.050 | 5.3 mmol/L                                                                                                                                                                                                                     | Reference Value<br>3.3-14.0        |
| <b>Total Saturated Acid</b>       | MCR                            | <b>Interpretation</b>                                                                                                                                                                                                          | 1 MCR                              |
| 3.6 mmol/L                        | Reference Value<br>1.2-4.6     | In this sample, the concentrations of linoleic and alpha-linolenic acids were not reduced. The triene/tetraene ratio was not elevated. These findings are not suggestive of a nutritional deficiency of essential fatty acids. |                                    |
| <b>Total Monounsaturated Acid</b> | MCR                            | <b>ADDITIONAL INFORMATION</b>                                                                                                                                                                                                  |                                    |
| 3.5 mmol/L                        | Reference Value<br>0.3-4.6     | Gas Chromatography-Mass Spectrometry (GC-MS) Stable Isotope Dilution Analysis                                                                                                                                                  |                                    |
| <b>Total Polyunsaturated Acid</b> | MCR                            | <b>Received:</b> 26 Aug 2020 13:19                                                                                                                                                                                             | <b>Reported:</b> 26 Aug 2020 14:43 |
| 2.5 mmol/L                        | Reference Value<br>1.1-4.9     |                                                                                                                                                                                                                                |                                    |

**Laboratory Notes**

- 1 This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

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