

Patient ID SA00723187	Patient Name SAMPLEREPORT, PFAPE ABN	Birth Date 2020-07-29	Gender M	Age 4 W
Order Number SA00723187	Client Order Number SA00723187	Ordering Physician CLIENT, CLIENT	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 01 Sep 2020 12:00		

Fatty Acid Profile, Essential, P

Lauric Acid, C12:0

26 nmol/mL

MCR

Reference Value
6–190

Myristic Acid, C14:0

116 nmol/mL

MCR

Reference Value
30–320

Hexadecenoic Acid, C16:1w7

48 nmol/mL

MCR

Reference Value
21–69

Palmitoleic Acid, C16:1w7

228 nmol/mL

MCR

Reference Value
20–1020

Palmitic Acid, C16:0

1270 nmol/mL

MCR

Reference Value
720–3120

g-Linolenic Acid, C18:3w6

14 nmol/mL

MCR

Reference Value
6–110

α-Linolenic Acid, C18:3w3

 8 nmol/mL

MCR

Reference Value
10–190

Linoleic Acid, C18:2w6

 990 nmol/mL

MCR

Reference Value
1000–3300

Oleic Acid, C18:1w9

975 nmol/mL

MCR

Reference Value
250–3500

Vaccenic Acid, C18:1w7

 133 nmol/mL

MCR

Reference Value
140–720

Stearic Acid, C18:0

344 nmol/mL

MCR

Reference Value
270–1140

EPA, C20:5w3

 70 nmol/mL

MCR

Reference Value
2–60

Arachidonic Acid, C20:4w6

 60 nmol/mL

MCR

Reference Value
110–1110

Mead Acid, C20:3w9

21 nmol/mL

MCR

Reference Value
3–24

h-g-Linolenic, C20:3w6

115 nmol/mL

MCR

Reference Value
30–170

Arachidic Acid, C20:0

 14 nmol/mL

MCR

Reference Value
30–120

DHA, C22:6w3

 5 nmol/mL

MCR

Reference Value
10–220

DPA, C22:5w6

12 nmol/mL

MCR

Reference Value
3–70

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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DPA, C22:5w3

63 nmol/mL

MCR

Reference Value
6–110

DTA, C22:4w6

12 nmol/mL

MCR

Reference Value
2–50

Docosenoic Acid, C22:1

4 nmol/mL

MCR

Reference Value
2–20

Nervonic Acid, C24:1w9
 21 nmol/mL

MCR

Reference Value
30–150

Low

Triene Tetraene Ratio
 0.070

MCR

Reference Value
0.013–0.050

High

Total Saturated Acid

1.8 mmol/L

MCR

Reference Value
1.2–4.6

Total Monounsaturated Acid

1.5 mmol/L

MCR

Reference Value
0.3–4.6

Total Polyunsaturated Acid

1.9 mmol/L

MCR

Reference Value
1.1–4.9

Total w3

0.4 mmol/L

MCR

Reference Value
0.0–0.4

Total w6
 0.7 mmol/L

MCR

Reference Value
0.9–4.4

Low

Total Fatty Acids

5.2 mmol/L

MCR

Reference Value
3.3–14.0

Interpretation (PFAPE)

1 MCR

In this sample, the concentrations of linoleic and alpha-linoleic acids were reduced. The triene/tetraene ratio was elevated. These findings are suggestive of a nutritional deficiency of essential fatty acids. However, the concentration of docosahexaenoic acid (c22:6 omega 3, DHA) was elevated (? dietary supplementation).

ADDITIONAL INFORMATION

Gas Chromatography-Mass Spectrometry (GC-MS) Stable Isotope Dilution Analysis

Received: 02 Sep 2020 09:43

Reported: 02 Sep 2020 10:10

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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