

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 1/6/2019
Sex: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 01/01/2017 12:34

Fatty Acids Profile, Essential in Red Blood Cells

ARUP test code 3003086

Interpretation, Fatty Acids Profile RBC

See Note

In this sample the concentration of omega-9 mead acid and the Triene/Tetraene ratio were increased with low concentrations of omega-3 alpha-linolenic and omega-6 linoleic acids. These findings are suggestive of nutritional deficiency of essential fatty acids. Note elevation of several other fatty acids possibly also secondary to lysosomal acid lipase deficiency.

INTERPRETIVE INFORMATION: Fatty Acids Profile, Essential in RBC

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, RBC	18 nmol/mL		(Ref Interval: 17-36)
Arachidonic Acid, C20:4w6, RBC	846 nmol/mL		(Ref Interval: 685-1041)
DHA, C22:6w3, RBC	398 nmol/mL	H	(Ref Interval: 110-306)
DPA, C22:5w3, RBC	98 nmol/mL		(Ref Interval: 48-160)
DPA, C22:5w6, RBC	60 nmol/mL	H	(Ref Interval: 29-58)
DTA, C22:4w6, RBC	154 nmol/mL		(Ref Interval: 136-259)
Docosenoic Acid, C22:1, RBC	9 nmol/mL		(Ref Interval: 3-9)
EPA, C20:5w3, RBC	23 nmol/mL		(Ref Interval: 8-29)
Hexadecenoic Acid, C16:1w9, RBC	12 nmol/mL	H	(Ref Interval: <=7)
Linoleic Acid, C18:2w6, RBC	334 nmol/mL	L	(Ref Interval: 449-762)
a-Linolenic Acid, C18:3w3, RBC	3 nmol/mL	L	(Ref Interval: 5-12)

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: 22-011-118073
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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h-g-Linolenic C20:3w6, RBC	133 nmol/mL		(Ref Interval: 64-140)
g-Linolenic Acid, C18:3w6, RBC	5 nmol/mL	H	(Ref Interval: 1-4)
Mead Acid, C20:3w9, RBC	30 nmol/mL	H	(Ref Interval: 1-6)
Myristic Acid, C14:0, RBC	29 nmol/mL		(Ref Interval: 13-41)
Nervonic Acid, C24:1w9, RBC	319 nmol/mL		(Ref Interval: 181-335)
Oleic Acid, C18:1w9, RBC	723 nmol/mL		(Ref Interval: 460-789)
Palmitic Acid, C16:0, RBC	1700 nmol/mL	H	(Ref Interval: 1093-1637)
Palmitoleic Acid, C16:1w7, RBC	107 nmol/mL	H	(Ref Interval: 5-17)
Stearic Acid, C18:0, RBC	986 nmol/mL		(Ref Interval: 786-1194)
Vaccenic Acid, C18:1w7, RBC	135 nmol/mL	H	(Ref Interval: 36-66)
Triene Tetraene Ratio, RBC	0.035	H	(Ref Interval: 0.001-0.006)
Total Saturated Acid, RBC	2.73 mmol/L		(Ref Interval: 1.94-2.84)
Total Monounsaturated Acid, RBC	1.30 mmol/L	H	(Ref Interval: 0.73-1.19)
Total Polyunsaturated Acid, RBC	2.08 mmol/L		(Ref Interval: 1.68-2.54)
Total w3, RBC	0.52 mmol/L	H	(Ref Interval: 0.22-0.46)
Total w6, RBC	1.53 mmol/L		(Ref Interval: 1.44-2.19)
Total Fatty Acids, RBC	6.12 mmol/L		(Ref Interval: 4.43-6.53)

EER Fatty Acids Profile, Essential RBC

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 RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
Arachidic Acid, C20:0, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
Arachidonic Acid, C20:4w6, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
DHA, C22:6w3, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
DPA, C22:5w3, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
DPA, C22:5w6, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
DTA, C22:4w6, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
Docosenoic Acid, C22:1, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM

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EPA, C20:5w3, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
Hexadecenoic Acid, C16:1w9, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
Linoleic Acid, C18:2w6, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
a-Linolenic Acid, C18:3w3, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
h-g-Linolenic C20:3w6, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
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Vaccenic Acid, C18:1w7, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
Triene Tetraene Ratio, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
Total Saturated Acid, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
Total Monounsaturated Acid, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
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Total w3, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
Total w6, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
Total Fatty Acids, RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM
EER Fatty Acids Profile, Essential RBC	22-011-118073	1/11/2022 8:58:00 AM	1/12/2022 4:49:03 PM	1/15/2022 4:32:00 PM

END OF CHART

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