

GENOVA DIAGNOSTICS

Patient: SAMPLE

PATIENT

DOB:

Sex:

MRN:

Omega 3 Fatty Acids			
Analyte (cold w	vater fish, flax, walnut) Reference Range		
<mark>α-Linolenic</mark> (ALA) 18:3 n3	0.14 >= 0.09 wt %		
Eicosapentaenoic (EPA) 20:5 n3	0.86 >= 0.16 wt %		
Docosapentaenoic (DPA) 22:5 n3	2.53 >= 1.14 wt %		
Docosahexaenoic (DHA) 22:6 n3	7.3 >= 2.1 wt %		
% Omega 3s	10.9 >= 3.8		

Omega 9 Fatty Acids			
Analyte	(olive oil) Reference Range		
Oleic 18:1 n9	11	10-13 wt %	
Nervonic 24:1 n9	3.2	2.1-3.5 wt %	
% Omega 9s	14.2	13.3-16.6	

Saturated Fatty Acids				
Analyte (meat, dairy, coconuts, palm oils) Reference Range				
Palmitic C16:0		7		18-23 wt %
Stearic C18:0		16		14-17 wt %
Arachidic C20:0		0.23		0.22-0.35 wt %
Behenic C22:0		0.98		0.92-1.68 wt %
Tricosanoic ^{C23:0}		0.	22	0.12-0.18 wt %
Lignoceric C24:0		2.9		2.1-3.8 wt %
Pentadecanoic ^{C15:0}		0.11		0.07-0.15 wt %
Margaric C17:0		0.27		0.22-0.37 wt %
% Saturated Fats	3	7.4		39.8-43.6

Essential and Metabolic Fatty Acids Analysis (RBCs)

63 Zillicoa Street Asheville, NC 28801 © Genova Diagnostics

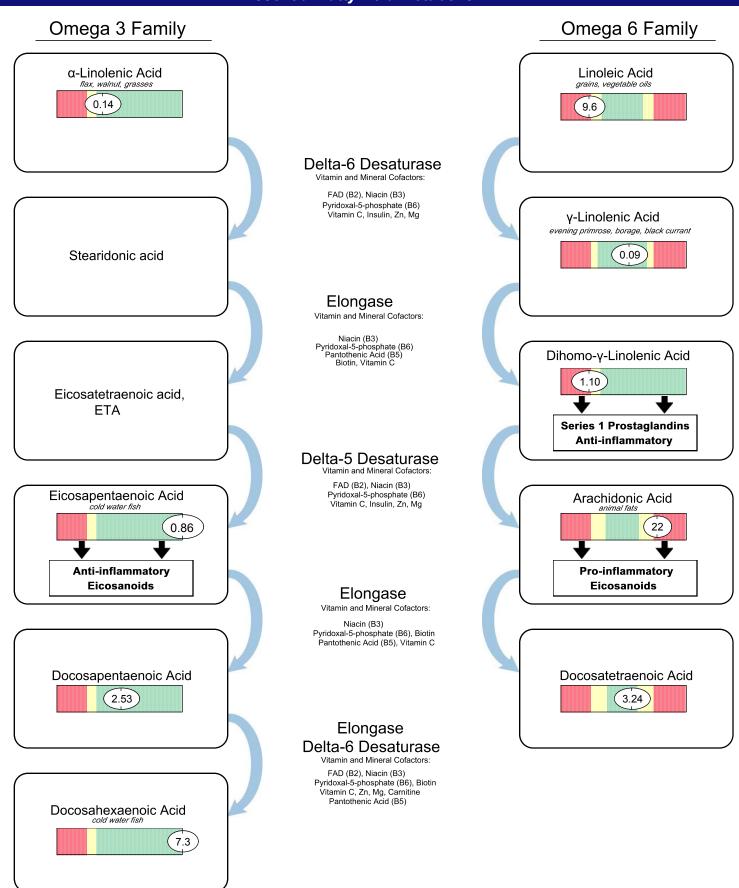
Omega 6 Fatty Acids			
Analyte (vegetable oil, grains, most meats, dairy) Reference Range			
Linoleic (LA) 18:2 n6	9.6	10.5-16.9 wt %	
γ-Linolenic (GLA) 18:3 n6	0.09	0.03-0.13 wt %	
Dihomo-γ-linolenic (DGLA) 20:3 n6	1.10	>= 1.19 wt %	
Arachidonic (AA) 20:4 n6	22) 15-21 wt %	
Docosatetraenoic (DTA) 22:4 n6	3.24	1.50-4.20 wt %	
Eicosadienoic 20:2 n6	0.18	<= 0.26 wt %	
% Omega 6s	36.4	30.5-39.7	

Monounsaturated Fats				
Omega 7 Fats	Reference Range			
Palmitoleic 16:1 n7	0.24		<= 0.64 wt %	
Vaccenic 18:1 n7	0.65		<= 1.13 wt %	
Trans Fat				
Elaidic 18:1 n9t	0.27		<= 0.59 wt %	

Delta - 6 Desaturase Activity				
Upregulated Functional Impaired				
Linoleic / DGLA 18:2 n6 / 20:3 n6 8.7 6.0-12.3				

Cardiovascular Risk			
Analyte Reference Range			
Omega 6s / Omega 3s	3.4		3.4-10.7
AA / EPA 20:4 n6 / 20:5 n3	26		12-125
Omega 3 Index	8.2		>= 4.0

Essential Fatty Acid Metabolism



This test was developed and its performance characteristics determined by Genova Diagnostics, Inc. It has not been cleared or approved by the U.S. Food and Drug Administration.

Step 3

Ship the specimen to the lab

Specimen must be returned in the Genova Diagnostics kit box for correct delivery to the lab. Not following these instructions may result in a shipping charge.

- Plan to ship the specimen Monday Friday overnight delivery.
- Call 1.800.GoFedEx (1.800.463.3339) to schedule shipping. When the automated system asks "How may I help you?" say "Return a Package". Tell the FedEx representative "I am using a billable stamp" and they will walk you through the process and make it easy.
- Make sure the tubes are tightly closed and identified with completed labels. Seal the tubes in the Biohazard bag.
- Place the Biohazard bag and the frozen gel pack in the Flexfoil pack.
- Place Flexfoil pack (with specimens) inside kit box and place completed and signed requisition on top before closing. Do not staple or tape the box.
- Print your name and address in the section marked "From" on the prepaid shipping envelope label. DO NOT mark or write in any other sections.
- Put the kit box into the envelope and seal the envelope.
- Keep your shipment and tracking numbers for future reference and tracking purposes.





IS-536

Essential and Metabolic Fatty Acids



 If any items are missing or expired, call Client Services at 800.522.4762 and press "1".

• Keep the kit box for shipping your specimen to the lab.

Genova Diagnostics[®] Innovative Testing for Optimal Health Genovative Testing for Optimal Health

©2010 Genova Diagnostics IS-536,n,pi,a-309-p,072510

Step 1

Schedule & Prepare for the blood draw

- Schedule the patient accordingly
 - Patients must **fast overnight** (at least 12 hours) prior to the blood draw. They should also be instructed to eat light meals the day before.
- Freeze the enclosed gel freezer pack a minimum of 4 hours before shipping.
- Contact FedEx and schedule to ship the specimen overnight delivery Monday - Friday. Specimens must be received at the lab within 48 hours of collection. If necessary, the specimen can be kept in a refrigerator overnight before shipping.
- **Complete the Requisition Form** with all patient and billing information. Be sure it is signed by the Patient/Responsible Party and the healthcare provider.

Step 2:

Blood Draw & Serum Preparation

Not following these instructions may affect the test results.



Write the patient's full name and the time and date of collection on each label and apply to tubes.



Draw blood to fill both Lavender top tubes.



Mix blood samples thoroughly by gently inverting the tubes three times. Do not shake.



Place the Lavender top tubes into the Biohazard bag, and seal it securely. *If unable to ship immediately, store the Biohazard bag in a refrigerator.* DO NOT FREEZE. Store refrigerated until shipped.