Essential and Metabolic Fatty Acids Analysis (RBCs)

GENOVA DIAGNOSTICS

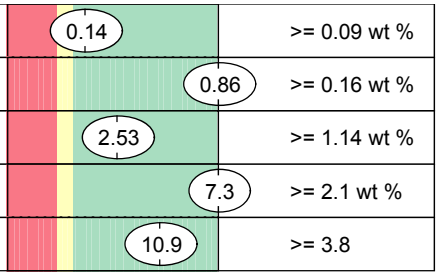
63 Zillicoa Street
Asheville, NC 28801

Patient: **JOHN DOE**
DOB: November 01, 1964
Sex: M
MRN:

Order Number: D5240141
Completed: March 24, 2011
Received: March 14, 2011
Collected: March 13, 2011

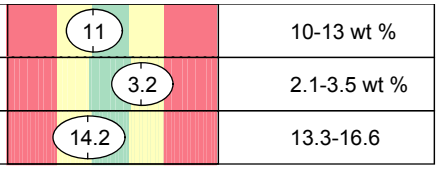
Omega 3 Fatty Acids

Analyte (cold water fish, flax, walnut)	Reference Range
α-Linolenic (ALA) 18:3 n3	>= 0.09 wt %
Eicosapentaenoic (EPA) 20:5 n3	>= 0.16 wt %
Docosapentaenoic (DPA) 22:5 n3	>= 1.14 wt %
Docosahexaenoic (DHA) 22:6 n3	>= 2.1 wt %
% Omega 3s	>= 3.8



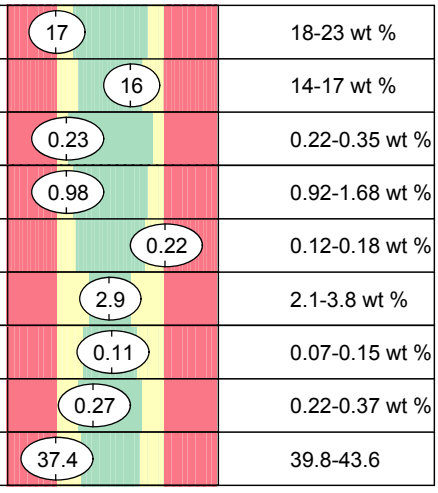
Omega 9 Fatty Acids

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



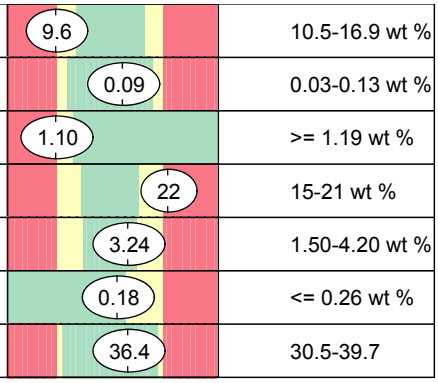
Saturated Fatty Acids

Analyte (meat, dairy, coconuts, palm oils)	Reference Range
Palmitic C16:0	18-23 wt %
Stearic C18:0	14-17 wt %
Arachidic C20:0	0.22-0.35 wt %
Behenic C22:0	0.92-1.68 wt %
Tricosanoic C23:0	0.12-0.18 wt %
Lignoceric C24:0	2.1-3.8 wt %
Pentadecanoic C15:0	0.07-0.15 wt %
Margaric C17:0	0.22-0.37 wt %
% Saturated Fats	39.8-43.6



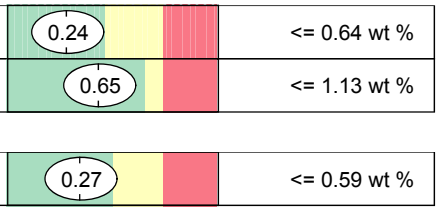
Omega 6 Fatty Acids

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



Monounsaturated Fats

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

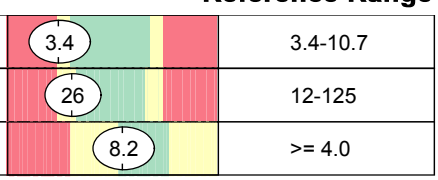


Delta - 6 Desaturase Activity

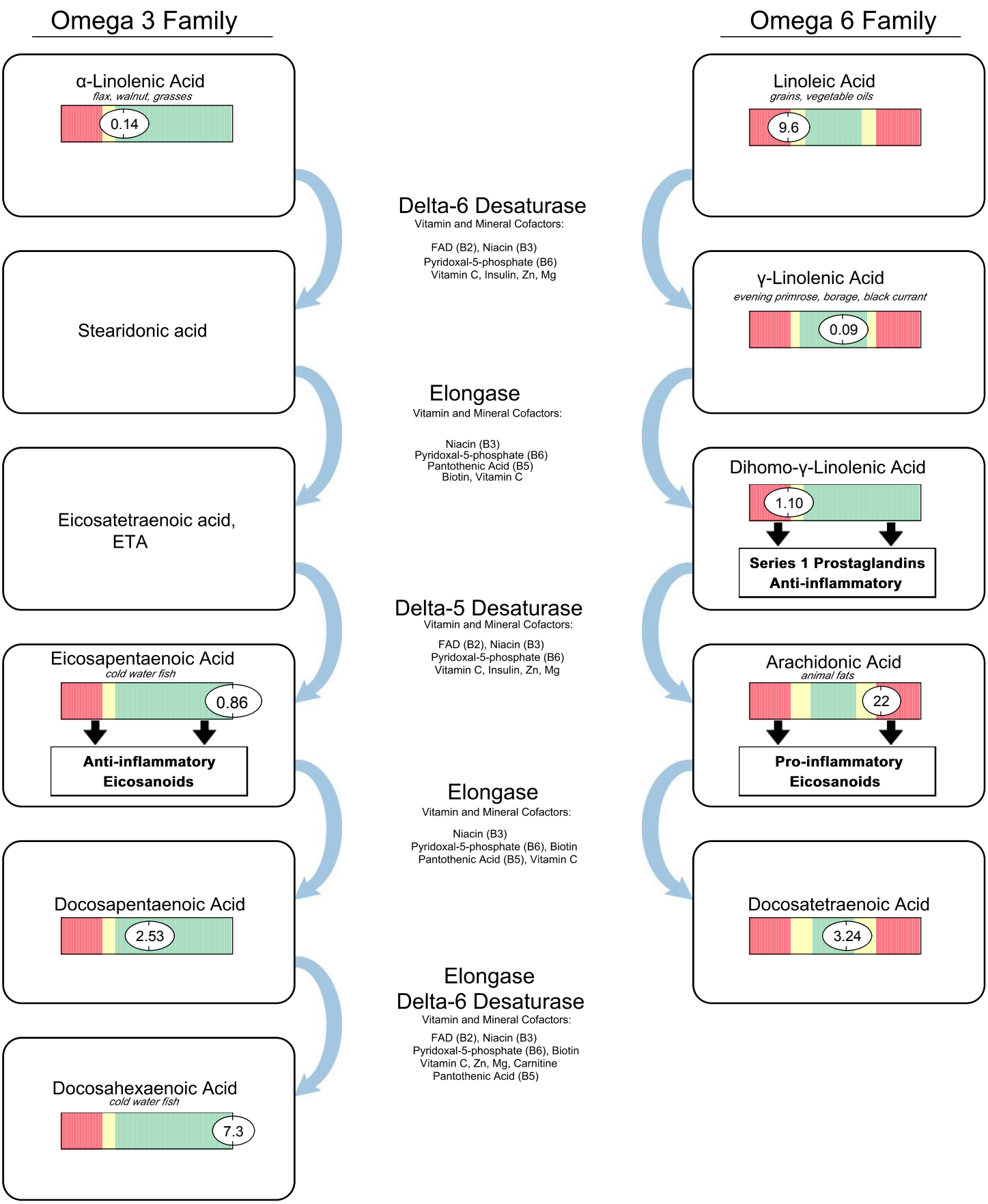
	Upregulated Functional Impaired	
Linoleic / DGLA 18:2 n6 / 20:3 n6	8.7	6.0-12.3

Cardiovascular Risk

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