Nordic Laboratories

PATIENT: XXXXXXXXXXXXXXXX			TEST REF: TST-NL-XXXX
TEST NUMBER: T-NL-XXXXX (XXXXXXXXXX)		COLLECTED: XX/XX/XXXX	PRACTITIONER: XXXXXXXXXXXXX
GENDER: XYZ		RECEIVED: XX/XX/XXXX	
AGE: XX		TESTED: XX/XX/XXXX	XXXXXXXXXXXXXXXXXXXX

TEST NAME: Essential & Metabolic Fatty Acids Bloodspot

3540 Essential & Metabolic Fatty Acids Bloodspot

Methodology: GCMS

Omega-3 Fatty Acids

Analyte		Reference Range
	(cold water fish, flax, walnut)	
α-Linolenic (ALA) 18:3 n3	9.13	>= 0.28 wt %
Eicosapentaenoic (EPA) 20:5 n3	0.24	>= 0.12 wt %
Docosapentaenoic (DPA) 22:5 n3	0.79	>= 0.34 wt %
Docosahexaenoic (DHA) 22:6 n3	1.2	>= 0.8 wt %
% Omega-3s	11.4	>= 1.6

Omega-9 Fatty Acids

Analyte		Reference Range
	(olive oil)	
Oleic 18:1 n9	17	14-21 wt %
Nervonic 24:1 n9	1.6	1.1-1.8 wt %
% Omega-9s	18.4	17.3-22.5

Saturated Fatty Acids

Analyte		Reference Range
	(meat, dairy, coconuts, palm oils)	
Palmitic C16:0	21	19-27 wt %
Stearic C18:0	10	9-12 wt %
Arachidic C20:0	0.27	0.24-0.40 wt %
Behenic C22:0	1.11	0.88-1.61 wt %
Tricosanoic C23:0	0.21	0.19-0.26 wt %
Lignoceric C24:0	1.3	1.1-1.9 wt %
Pentadecanoic C15:0	0.24	0.14-0.30 wt %
Margaric C17:0	0.29	0.24-0.45 wt %
% Saturated Fats	33.6	39.8-43.6

Omega-6 Fatty Acids

Analyte		Reference Range
	(vegetable oil, grains, most meats, dairy)	
Linoleic (LA) 18:2 n6	21.8	18.8-28.3 wt %
γ-Linolenic (GLA) 18:3 n6	0.32	0.15-0.54 wt %
Dihomo-γ-linolenic (DGLA) 20:3 n6	4.77	>= 1.02 wt %
Arachidonic (AA) 20:4 n6	8	7-12 wt %
Docosatetraenoic (DTA) 22:4 n6	0.68	0.45-1.25 wt %
Eicosadienoic 20:2 n6	0.04	<= 0.26 wt %
% Omega-6s	35.2	30.5-39.7

Monounsaturated Fatty Acids

Omega-7 Fatty Acids

		Reference Range
Palmitoleic 16:1 n7	1.11	<= 2.58 wt %
Vaccenic 18:1 n7	0.12	<= 1.65 wt %

Trans Fats

		Reference Range
Elaidic 18:1 n9t	0.24	<= 0.59 wt %

Delta-6-Desaturase Activity

	Upregulated Functional Impaired	
Linoleic / DGLA 18:2 n6 / 20:3 n6	4.6	12.6-31.5

Cardiovascular Risk

Analyte		Reference Range
Omega-6s / Omega-3s	3.1	8.5-27.4
AA / EPA 20:4 n6 / 20:5 n3	32	10-86
Omega-3 Index *	3.7	>= 4.0

The Essential Fatty Acid reference ranges are based on an adult population.

* The patient results for the Omega 3 Index have been converted to red blood cell equivalence in order to maintain applicability to the literature-based reference ranges for this marker.

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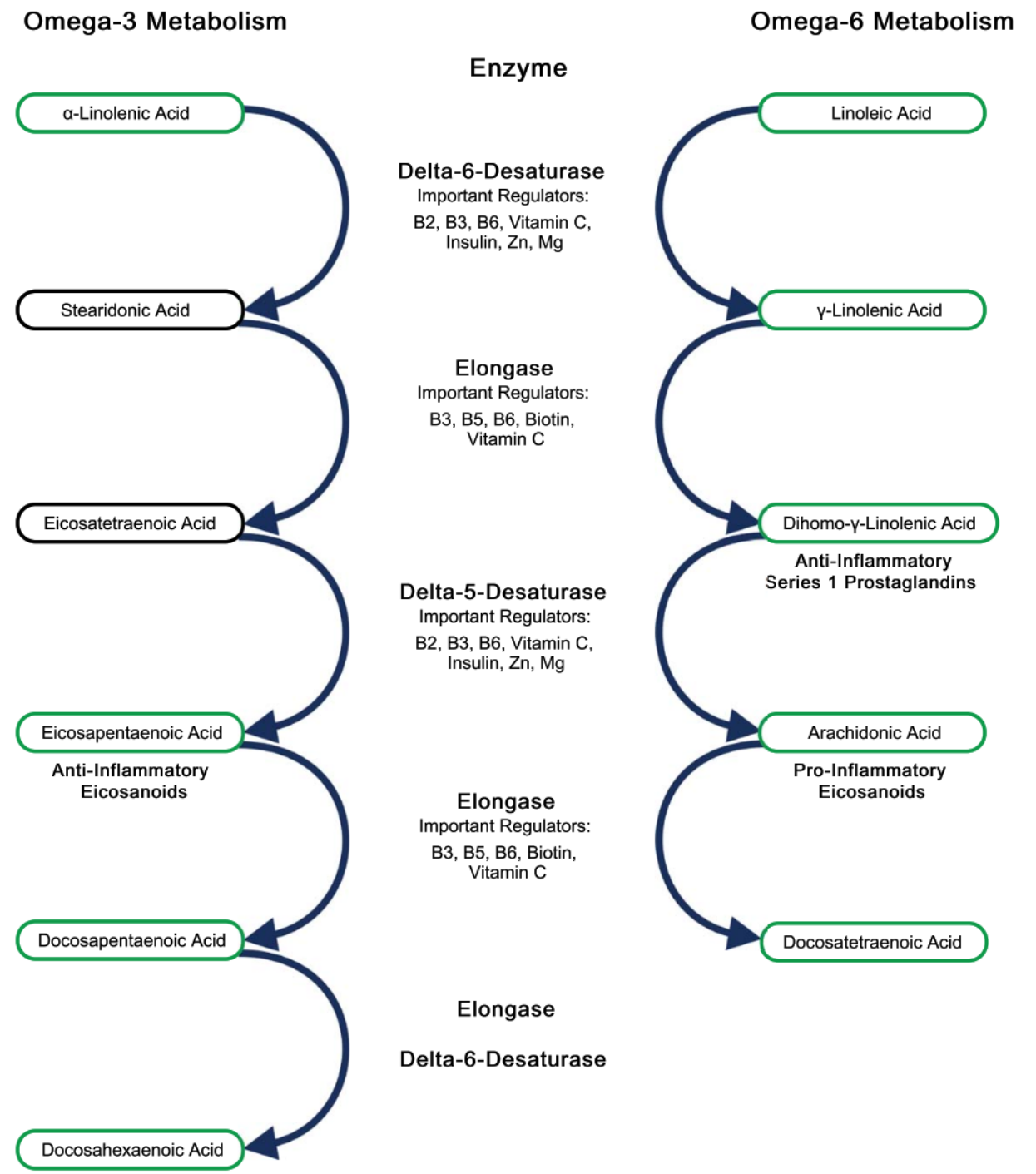
PATIENT: XXXXXXXXXXXXXXXX			TEST REF: TST-NL-XXXX
TEST NUMBER: T-NL-XXXXX (XXXXXXXXXX)		COLLECTED: XX/XX/XXXX	PRACTITIONER: XXXXXXXXXXXXX
GENDER: XYZ		RECEIVED: XX/XX/XXXX	
AGE: XX		TESTED: XX/XX/XXXX	XXXXXXXXXXXXXXXXXXXX

TEST NAME: Essential & Metabolic Fatty Acids Bloodspot

Fatty Acid Metabolism



TEST NAME: Essential & Metabolic Fatty Acids Bloodspot

Commentary

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

The **Reference Range** is a statistical interval representing 95% or 2 Standard Deviations (2 S.D.) of the reference range population. One Standard Deviation (1 S.D.) is a statistical interval representing ~68% of the reference population. Values between 1 and 2 S.D. are not necessarily abnormal. Clinical Correlation is suggested.