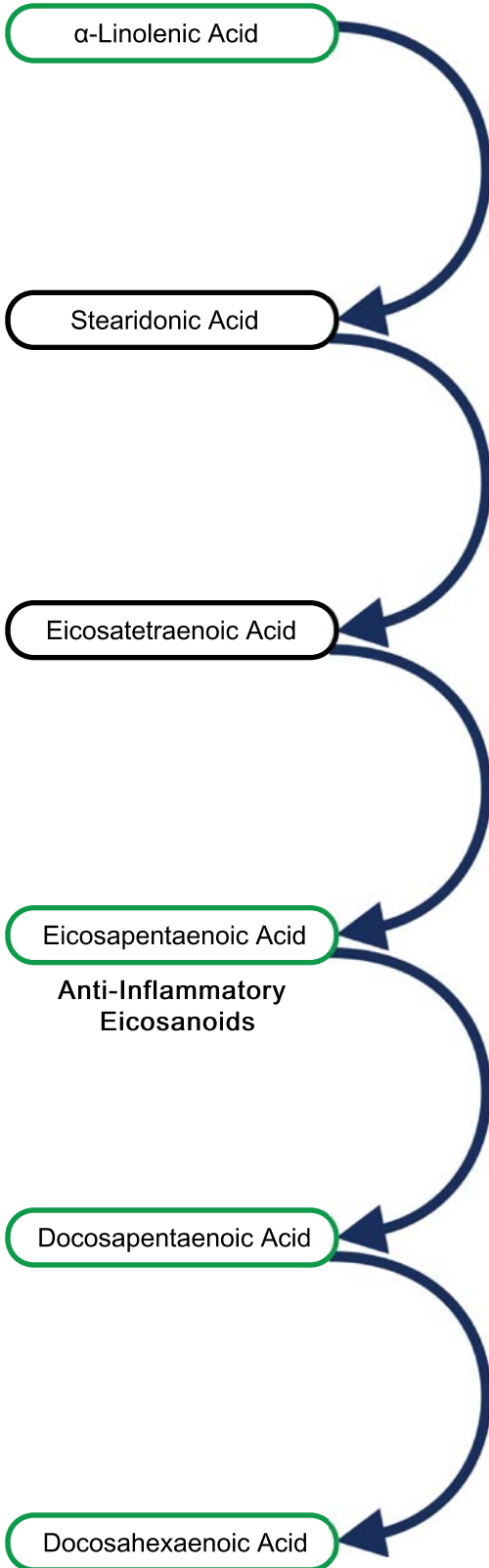




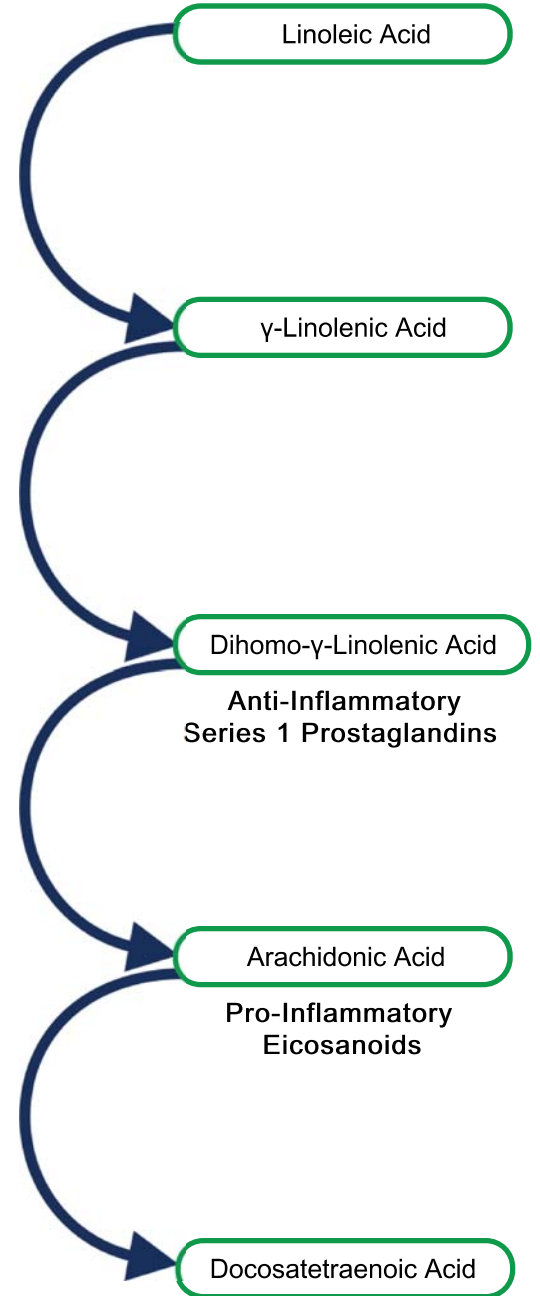


## Fatty Acid Metabolism

### Omega-3 Metabolism



### Omega-6 Metabolism



#### Enzyme

**Delta-6-Desaturase**  
 Important Regulators:  
 B2, B3, B6, Vitamin C,  
 Insulin, Zn, Mg

**Elongase**  
 Important Regulators:  
 B3, B5, B6, Biotin,  
 Vitamin C

**Delta-5-Desaturase**  
 Important Regulators:  
 B2, B3, B6, Vitamin C,  
 Insulin, Zn, Mg

**Elongase**  
 Important Regulators:  
 B3, B5, B6, Biotin,  
 Vitamin C

**Elongase**  
**Delta-6-Desaturase**

Linoleic Acid

γ-Linolenic Acid

Dihomo-γ-Linolenic Acid

**Anti-Inflammatory  
 Series 1 Prostaglandins**

Arachidonic Acid

**Pro-Inflammatory  
 Eicosanoids**

Docosatetraenoic Acid

α-Linolenic Acid

Stearidonic Acid

Eicosatetraenoic Acid

Eicosapentaenoic Acid

**Anti-Inflammatory  
 Eicosanoids**

Docosapentaenoic Acid

Docosahexaenoic Acid



## Commentary

For more information regarding Essential and Metabolic Fatty Acids clinical interpretation, please refer to the Fatty Acids Support Guide at <https://www.gdx.net/core/support-guides/fatty-acid-support-guide.pdf>

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.

