

# LIVER ENZYME INTERPRETATION

Clinical Reference Template Version: 2024.1

Enzyme / Marker	Primary Location	Significance of Elevation	Common Pattern
<b>ALT</b> (Alanine Aminotransferase)	Liver (Specific)	Direct hepatocellular injury; acute hepatitis.	<b>HEPATOCELLULAR</b>
<b>AST</b> (Aspartate Aminotransferase)	Liver, Heart, Muscle	Cellular damage; AST > ALT often suggests alcohol or cirrhosis.	<b>HEPATOCELLULAR</b>
<b>ALP</b> (Alkaline Phosphatase)	Bile ducts, Bone	Biliary obstruction, cholestasis, or bone turnover.	<b>CHOLESTATIC</b>
<b>GGT</b> (Gamma-Glutamyl Transferase)	Bile ducts, Liver	Confirms hepatic origin of ALP; sensitive to alcohol intake.	<b>CHOLESTATIC</b>
<b>Bilirubin</b> (Total)	Heme breakdown	Impaired excretion, hemolysis, or biliary blockage.	<b>MIXED</b>

<b>Enzyme / Marker</b>	<b>Primary Location</b>	<b>Significance of Elevation</b>	<b>Common Pattern</b>
<b>Albumin</b>	Liver synthesis	Decreased levels indicate chronic liver dysfunction.	---

*Note: This document is a clinical template for informational use only. Laboratory findings must be correlated with clinical presentation and patient history.*