

HEPATOLOGY & GASTROENTEROLOGY LAB

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LIVER FUNCTION TEST REPORT

Report Date: January 18, 2024 | Accession #: L2024-003456

Patient Name: Michael Brown (Test Patient)

Medical Record #: MR-2024-003

Date of Collection: January 18, 2024

Physician: Dr. Jennifer Wilson

Specimen Type: Venous Blood

Fasting Status: 10 hours

DOB: 07/22/1975

Age: 49 years

Time of Collection: 07:45 AM

Department: Gastroenterology

Collection Site: Right Antecubital

Medications: None reported

LIVER FUNCTION TESTS (LFTs)

Test	Result	Reference Range	Units	Status
ALT (Alanine Aminotransferase)	32	7 - 56	U/L	Normal
AST (Aspartate Aminotransferase)	28	10 - 40	U/L	Normal
ALP (Alkaline Phosphatase)	78	44 - 147	U/L	Normal
GGT (Gamma-Glutamyl Transferase)	25	9 - 48	U/L	Normal
Total Bilirubin	0.8	0.3 - 1.2	mg/dL	Normal
Direct Bilirubin	0.2	0.0 - 0.3	mg/dL	Normal
Indirect Bilirubin	0.6	0.2 - 0.9	mg/dL	Normal
Albumin	4.2	3.5 - 5.0	g/dL	Normal
Total Protein	7.1	6.0 - 8.3	g/dL	Normal
Globulin	2.9	2.0 - 3.5	g/dL	Normal
A/G Ratio	1.4	1.1 - 2.2	Ratio	Normal

HEPATITIS VIRAL MARKERS

Test	Result	Reference Range	Units	Status
Hepatitis A IgM	Negative	Negative	Antibody	Normal
Hepatitis A IgG	Positive	Negative	Antibody	Normal (Immunity)
Hepatitis B Surface Antigen (HBsAg)	Negative	Negative	Antigen	Normal
Hepatitis B Surface Antibody (HBsAb)	Positive	Negative	Antibody	Normal (Immunity)
Hepatitis B Core IgM	Negative	Negative	Antibody	Normal
Hepatitis B Core IgG	Negative	Negative	Antibody	Normal
Hepatitis C Antibody	Negative	Negative	Antibody	Normal
Hepatitis C RNA (PCR)	Not Detected	Not Detected	RNA	Normal

LIVER SYNTHETIC FUNCTION

Test	Result	Reference Range	Units	Status
Prothrombin Time (PT)	12.5	11.0 - 13.0	seconds	Normal
INR (International Normalized Ratio)	1.0	0.8 - 1.1	Ratio	Normal
Partial Thromboplastin Time (PTT)	28	25 - 35	seconds	Normal
Fibrinogen	280	200 - 400	mg/dL	Normal
Factor V	85	70 - 120	%	Normal
Factor VII	92	70 - 120	%	Normal

ADDITIONAL LIVER MARKERS

Test	Result	Reference Range	Units	Status
Alpha-1 Antitrypsin	120	90 - 200	mg/dL	Normal
Ceruloplasmin	28	20 - 40	mg/dL	Normal
Copper	95	70 - 140	µg/dL	Normal
Iron	85	60 - 170	µg/dL	Normal
TIBC	320	250 - 450	µg/dL	Normal
Transferrin Saturation	27	20 - 50	%	Normal
Ferritin	45	15 - 150	ng/mL	Normal

<p>CLINICAL INTERPRETATION:</p> <ul style="list-style-type: none">• Liver Enzymes: All liver enzymes (ALT, AST, ALP, GGT) are within normal reference ranges, indicating no evidence of hepatocellular injury or cholestasis.• Bilirubin: Total, direct, and indirect bilirubin levels are normal, ruling out jaundice or hemolytic disorders.• Protein Synthesis: Albumin, total protein, and globulin levels are normal, indicating preserved liver synthetic function.• Coagulation: Prothrombin time and INR are normal, confirming adequate production of clotting factors.• Hepatitis Status: No evidence of active viral hepatitis. Positive HAV IgG and HBsAb indicate immunity from previous vaccination or infection.• Iron Studies: All iron parameters are within normal limits, ruling out hemochromatosis or iron deficiency. <p>RECOMMENDATIONS:</p> <ul style="list-style-type: none">• No Further Testing: Current liver function tests are completely normal• Routine Monitoring: Continue annual liver function screening as part of preventive care• Lifestyle: Maintain healthy diet and moderate alcohol consumption• Vaccination: Patient has immunity to HAV and HBV• Follow-up: Return to clinic in 1 year for routine evaluation
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This report is for testing purposes only.

Report generated by: Hepatology Laboratory System | Verified by: Dr. David Martinez, MD

Report Date: January 18, 2024 15:20 | Next Review: January 18, 2025