Lab Dept: Chemistry

Test Name: BILE ACIDS, FRACTIONATED & TOTAL

Lab Order Codes:	BAFS
Synonyms:	N/A
CPT Codes:	82542 - Column chromatography/mass spectrometry (eg, GC/MS, or HPLC/MS), analyte not elsewhere specified
Test Includes:	The following analytes reported in nmol/mL: Total Cholic acid, Total Chenodeoxycholic acid, Total Deoxycholic acid, Total Ursodeoxycholic acid, Total Bile acids

Logistics

Test indications:	 Measuring tauro- and glycol-conjugated and unconjugated bile acid constituents in serum. Monitoring patients receiving bile acid therapy, such as cholic acid, deoxycholic acid or ursodeoxycholic acid. Aiding the evaluation of liver function; evaluation of liver function changes before the formation of more advanced clinical signs of illness such as icterus. Determining hepatic dysfunction as a result of chemical and environmental injury. Indicating hepatic histological improvement in chronic hepatitis C patients responding to interferon treatment. Indicating intrahepatic cholestasis of pregnancy. NOTE: This test should not be used for the diagnosis of peroxisomal biogenesis disorders or inborn errors of bile acid metabolism. Mayo offers a separate test for these situations.
Lab Testing Sections:	Chemistry - Sendouts
Referred to:	Mayo Clinic Laboratories
Phone Numbers:	MIN Lab: 612-813-62
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	2 – 7 days

Special Instructions:

Specimen

Specimen Type:	Blood	
Container:	SST (Gold, marble or red)	
Draw Volume:	1.5 mL (Minimum: 0.9 mL) blood	
Processed Volume:	0.5 mL (Minimum: 0.3 mL) serum	
Collection:	Routine blood collection	
Special Processing:	Lab staff: Centrifuge specimen, remove capped vial. Store and ship refrigerate	· · ·
Patient Preparation:	Patient must be fasting for 12-14 hou	rs
Sample Rejection:	Mislabeled or unlabeled specimens	
Interpretive		
Reference Range:	Analyte:	Reference Range: (nmol/mL)
	Total Cholic acid	< or =5.00
	Total Chenodeoxycholic acid	< or =6.00

Total Chenodeoxycholic acid	< or =6.00
Total Deoxycholic acid	< or =6.00
Total Ursodeoxycholic acid	< or =2.00
Total Bile acids	< or =19.00

and intrahepatic cholestasis of pregnancy.

Critical Values: N/A

Limitations: This test does not measure sulfated bile acids.

Methodology: Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)

References: Mayo Clinic Laboratories (August 2020)