

LAB51 Bilirubin Fractionation, Neonatal

MIB, FOX, FTT, CRH, LFH, OCH, FXCC, HLS

Performing Location(s)

MIB, FOX, FTT, CRH, LFH, OCH, FXCC, HLS

Specimen Type

Serum or Plasma

Preferred Container

Gold Microtainer

Alternate Container

Gold, Red, or Green top tube, Green Microtainer

Minimum Volume to Submit for Testing

0.5 mL Serum or Plasma

Transportation Needs

Deliver specimen to laboratory within 1 hour of collection if unspun.

If not possible see "Storage Requirements".

Storage Requirements

Bilirubin is extremely photosensitive.

A 50% decrease in bilirubin within 1 hour has been reported for samples exposed to direct sunlight.

For optimal stability, serum samples should be stored in the darkness (or wrapped in foil) at low temperatures refrigerated.

Microtainer tubes should be centrifuged within 2 hours of collection.

Serum from microtainer collection tubes does NOT require transfer to another tube.

Sample tubes should be centrifuged within 2 hours of collection followed by transfer of the serum (red or gold top) or plasma (green top) to a labeled plastic, aliquot tube.

Causes for Rejection

Mislabeled or unlabeled specimen

Less than 50% draw for vacutainer tubes

> 3 days refrigerated

> 24 hours room temperature

> 3 months frozen

Protect from light, stable 8 hours unprotected

Hemolysis > 25 mg/dL HgB

Lipemia > 500 mg/dL Trig

Hemolysis criteria does not apply if ordered as a PBIL

NOTE: The clinical laboratory no longer rejects pediatric bilirubin based on hemolysis. When detected, hemolyzed specimens with resulting hemoglobin > 100 mg/dL will be result and “flagged” with the comment: “Specimen hemolyzed. DBIL may be underestimated” (see Limitations of Procedure)

Reference Values

Analyte	Units	Population	Reference Range	Critical Value
Total Bilirubin	mg/dL	0-6 days	BiliTool.org	≥ 15.0
		7-14 days old	<12.0	>15.0
		15-28 days old	0.1-7.0	>15.0
		>28 days	0.3-1.0	
Direct Bilirubin	mg/dL	All Populations	0.0-0.2	

Available STAT

Yes

Methodology

Beckman AU/Dx Series

CPT Code

82248, 82247