
Lab Dept: Chemistry

Test Name: BILIRUBIN, TOTAL

General Information

Lab Order Codes: TBIL

Synonyms: Total Bilirubin; Nbil; Neonatal Bilirubin

CPT Codes: 82247 – Bilirubin; total

Test Includes: Total bilirubin concentration reported in mg/dL.

Logistics

Test Indications: Bilirubin is the orange-yellow pigment derived from senescent red blood cells. It is extracted and biotransformed in the liver. Bilirubin is screened and monitored for liver disorders, such as jaundice, or liver disease, such as cirrhosis. Total bilirubin measures the entire concentration of bilirubin in the blood.

Lab Testing Sections: Chemistry

Phone Numbers: MIN Lab: 612-813-6280
STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 hour

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: **Preferred:** Green top (Li Heparin) tube
Alternate: SST: Red, marble or gold top tube

Draw Volume: 0.6 mL blood

Processed Volume: 0.2 mL plasma/serum

Collection: Routine blood collection

Special Processing: Lab Staff: Specimen must be separated from cells within 2 hours of collection. Centrifuge specimen, remove serum/plasma aliquot into plastic sample cup. Analyze within 2 hours, or protect from light.

Patient Preparation: Remove photo therapy prior to sample collection.

Sample Rejection: Unlabeled or mislabeled specimen

Interpretive

Reference Range:	Age:	Range (mg/dL):
	0 – 2 weeks:	0.2 - 11.7 mg/dL
	2 weeks – 10 years:	0.2 - 0.9 mg/dL
	>10 years:	0.2 – 1.0 mg/dL

Critical Values: <1 day: >12.0 mg/dL

>1 day: >15.0 mg/dL

Limitations: Exposure to light rapidly and significantly decreases bilirubin.

Methodology: Modified Jendrassik-Grof

References: TBI Flex® reagent cartridge insert sheet PN 717167.001 Issue Date 04/07/2008 Rev. B

Clinical Significance, Dade Behring Inc., Glasgow Business Community, Mailbox 531, P.O. Box 6101, Newark, Delaware 19714

Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition

Biorad Liquichek Unassayed Chemistry Control Product Insert, Bio-Rad Laboratories, Irvine, CA 92618

Biorad Liquichek Pediatric Control Product Insert, Bio-Rad Laboratories, Irvine, CA 92618

Frequently Asked Questions (March 2008) Dade Behring, Global Products Support

Updates: 2/8/2016: Update alt tube types
9/13/2016: Update “protect from light” requirements