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**Lab Dept:** Chemistry

**Test Name:** BILIRUBIN, TOTAL

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***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.

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***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

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***Specimen***

**Specimen Type:** Blood

**Container:** **Preferred:** Green top (Li Heparin) tube  
Alternate: SST: Red, marble or gold top tube or Green (NaHep) 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 by using foil or an amber tube. Store refrigerated.

When protected from light, samples are stable for 8 hours at room temperature, at 2-8 degrees C for 1 week and at <-20 degrees C for 3 months.

**Patient Preparation:**

Remove photo therapy prior to sample collection.

**Sample Rejection:**

Unlabeled or mislabeled specimen

***Interpretive*****Reference Range:**

<b>Reference ranges by Method:</b>	
Method Abbott	
0 – 14 days:	0.2 – 16.6 mg/dL
15 – 364 days:	0.1 – 0.7 mg/dL
1 – 8 years:	0.1 – 0.4 mg/dL
9 – 11 years:	0.1 – 0.6 mg/dL
12 – 14 years:	0.1 – 0.7 mg/dL
15 – 18 years:	0.1 – 0.8 mg/dL
Adult:	0.2 – 1.2 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:**

ABBOTT: Diazonium Salt

**References:**

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

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

Architect Total Bilirubin Pkg Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL 60064, February 2017

Alinity Total Bilirubin Pkg Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL 60064, March 2018

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

**Updates:**

2/8/2016: Update alt tube types

9/13/2016: Update "protect from light" requirements

10/18/2019: New backup instrumentation and related reference ranges

2/19/2020: Added Siemens Vista interference with eltrombopag treatment.

9/23/2020: Updated specimen stability info.

11/9/2020: Retired method VISTA, updated containers