
Lab Dept: Chemistry

Test Name: BILIRUBIN, DIRECT

General Information

Lab Order Codes: DBIL

Synonyms: Direct Bilirubin; Conjugated Bilirubin

CPT Codes: 82248 – Bilirubin; direct

Test Includes: Direct 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.

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: Red, marble or gold top tube, 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:

Reference ranges by Method:	
Method Abbott	
0 – 14 days:	0.3 - 0.7 mg/dL
15 – 364 days:	0.1 – 0.3 mg/dL
1 – 8 years:	0.1 – 0.2 mg/dL
9 – 12 years:	0.1 – 0.3 mg/dL
13 – 18 years:	0.1 – 0.4 mg/dL
Adult:	0.0 – 0.5 mg/dL

Critical Values: N/A

Limitations: Hemolysis of the sample falsely decreases the direct bilirubin result. Exposure to light rapidly and significantly decreases bilirubin.

Methodology: ABBOTT: Diazo Reaction

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

Alinity Direct Bilirubin Pkg Insert, Abbott Laboratories 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

9/14/2016: Update protect from light instructions

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

9/23/2020: Updated specimen stability info.

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