# Lab Dept: Serology

## Test Name: HEPATITIS Bs ANTIBODY (ANTI-HBs)

### General Information

- **Lab Order Codes:** HBABY
- **Synonyms:** Hepatitis Bs Antibody; HbsAb; Hepatitis B Surface Antibody
- **CPT Codes:** 86706 – Hepatitis B surface antibody (HbsAb)
- **Test Includes:** Hepatitis B Surface Antibody reported as qualitative and quantitative values (Qualitative result reported as negative, positive or indeterminate. Quantitative result reported in mIU/mL).

### Logistics

- **Test Indications:** Useful for identifying previous exposure to HBV. Determining adequate immunity from hepatitis B vaccination.
- **Lab Testing Sections:** Serology - Sendouts
- **Referred to:** Mayo Medical Laboratories (MML Test: HBAB)
- **Phone Numbers:**
  - MIN Lab: 612-813-6280
  - STP Lab: 651-220-6550
- **Test Availability:** Daily, 24 hours
- **Turnaround Time:** 1- 2 days; test set up Monday - Saturday
- **Special Instructions:** N/A

### Specimen

- **Specimen Type:** Blood
- **Container:** SST (Gold or Marble)
- **Draw Volume:** 3 mL (Minimum: 1.5 mL) blood
- **Processed Volume:** 1 mL (Minimum: 0.5 mL) serum
- **Collection:** Routine venipuncture
**Special Processing:**
Lab Staff: Centrifuge specimen, remove serum aliquot into screw-capped round bottom plastic vial. Store and ship at frozen temperatures. Forward promptly.

**Patient Preparation:**
None

**Sample Rejection:**
Specimens other than serum; lipemic specimens; gross hemolysis; grossly icteric; mislabeled or unlabeled specimens

Note: Heparinized specimens will not be tested.

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**Interpretive**

**Reference Range:**
- **Qualitative:**
  - Unvaccinated: negative
  - Vaccinated: positive

- **Quantitative:**
  - Unvaccinated: <5.0 mIU/mL
  - Vaccinated: > or =12.0 mIU/mL

**Interpretation:**
This assay provides both qualitative and quantitative results. Positive results usually indicate recovery from acute or chronic hepatitis B virus (HBV) infection, or acquired immunity from HBV vaccination.

Positive results (quantitative hepatitis B surface antibody[anti-HBs] levels of > or =12 mIU/mL) indicate an adequate immunity to hepatitis B from previous HBV infection or HBV vaccination.

Negative results (quantitative anti-HBs levels <5.0 mIU/mL) indicate a lack of recovery from acute or chronic hepatitis B or inadequate immune response to HBV vaccination.

**Critical Values:**
N/A

**Limitations:**
Passively acquired hepatitis B surface antibody (anti-HBs) (i.e., transfusion, recent immune globulin treatment) can yield positive results without indicating permanent immunity to hepatitis B virus (HBV) infection. Anti-HBs may fall below detectable levels over time. Not useful for the demonstration of acute HBV infection. Performance characteristics have not been established for the following specimen characteristics: grossly icteric, lipemia, hemolysis, containing particulate matter or cadaveric specimens.

**Methodology:**
Chemiluminescence Immunoassay

This assay produces both qualitative and quantitative results.

**References:**
Mayo Medical Laboratories Web Page June 2014
Updates:

4/6/2004: Test moved from Memorial Blood Center of Minneapolis to Mayo Medical Laboratories.
1/20/2006: CPT 2006 updates
12/3/2013: Update reference ranges for quantitative testing due to platform change.
6/30/2014: Reference range update for HBAB, Quantitative
1/16/2017: Update to SST.