
Lab Dept: Chemistry

Test Name: BIOTINIDASE

General Information

Lab Order Codes: BIT

Synonyms: Biotin-amide amidohydrolase; Biotinidase deficiency; Biotinidase, serum

CPT Codes: 82261 – Biotinidase, each specimen

Test Includes: Biotinidase level reported in U/L.

Logistics

Test Indications: Useful for screening for biotinidase deficiency (preferred method) and for follow-up testing for certain organic acidurias.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Mayo Medical Laboratories (MML Test: BIOTS)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 4 - 8 days, test set up Monday and Thursday

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: SST (Gold, marble or red) tube

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 immediately into a plastic screw-capped vial. Store and ship at frozen temperatures. Forward promptly.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens; gross hemolysis

Interpretive

Reference Range: 3.5 - 13.8 U/L

Partial deficiencies and carriers may occur at the low end of the reference range. Suggest maintenance on a biotin supplementation and retesting in 1 month.

Values <3.5 U/L are occasionally seen in specimens from unaffected patients.

Critical Values: N/A

Limitations: A diet high in biotin may result in normal clinical presentation even when the biotinidase level is low.

Methodology: Colorimetric

References: [Mayo Medical Laboratories Web Page](#) (December 2019)

Updates:
7/13/2006: Specimen type change, previously listed as frozen serum.
6/17/2012: Specimen type change, previously listed as whole blood.
11/8/2017: Collection container update
12/5/2019: Draw volume update