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 Clinic 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.
	Specimen stable frozen (preferred) for 21 days, refrigerated for 5 days.
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.
	Assay interference may occur for specimens collected when the patient is being treated with a sulfa drug.
Methodology:	Colorimetric
References:	Mayo Clinic Laboratories (January 2024)
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 1/24/2024: Added specimen stability and additional limitation/interference.