
Lab Dept: Chemistry

Test Name: THYROXINE BINDING GLOBULIN, SERUM

General Information

Lab Order Codes: TBGI

Synonyms: TBG

CPT Codes: 84442 – Thyroxine binding globulin

Test Includes: TBG reported in mcg/mL.

Logistics

Test Indications: Cases in which total thyroid hormone levels do not correlate with the thyrometabolic status, most commonly with pregnancy or the use of contraceptive steroids.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Mayo Clinic Laboratories (MML Test: TBGI)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 - 3 days, test set up Monday-Friday

Special Instructions: See [Patient Preparation](#)

Specimen

Specimen Type: Blood

Container: Preferred: Red NO GEL
Alternate tube: SST (Gold or marble)

Draw Volume: 1.5 mL (Minimum: 1.1 mL) blood

Processed Volume: 1 mL (Minimum: 0.35 mL) serum

Collection: Routine blood collection

Special Processing: Lab Staff: Centrifuge specimen, remove serum aliquot into a screw-capped round bottom vial. Store and ship refrigerated. Forward promptly.

Patient Preparation: For 12 hours before specimen collection, do not take multivitamins or dietary supplements containing biotin (vitamin B7), which is commonly found in hair, skin, and nail supplements and multivitamins.

Sample Rejection: Gross hemolysis; mislabeled or unlabeled specimens

Interpretive

Reference Range:	All Ages	Range (mcg/mL)
	Male:	12 - 26
	Female:	11 - 27

Critical Values: N/A

Limitations: Females using estrogen-based contraception may exceed the reference range.

Methodology: Solid-phase Chemiluminescent Assay

References: [Mayo Clinic Laboratories](#) August 2021

Updates: 9/27/2010: Minimum volume, method (previously listed as Double antibody RIA) and reference range update
11/13/2017: Collection container update.