
Lab Dept: Chemistry

Test Name: TSH, SENSITIVE, REFLEX TO FT4 (FREE T4)

General Information

Lab Order Codes: TSHR

Synonyms: Thyroid Stimulating Hormone, Reflex to Free T4 (Thyroxine)

CPT Codes: 84443 – Thyroid Stimulating Hormone
84439 – Free T4 (Thyroxine), if appropriate

Test Includes: TSH level reported in uIU/mL. Additionally, a FT4 will be reflexed (at an additional charge) when:

- Patients with an abnormal TSH result will reflex to FT4 performed at Children's Laboratory.

Logistics

Test indications: TSH is synthesized and secreted by the anterior pituitary. TSH is responsible for stimulating cell reproduction and hypertrophy. Secondly, TSH stimulates the thyroid gland to synthesize and secrete T3 and T4. The measurement of circulating TSH is important in evaluating hyperthyroidism. Abnormal TSH values will create an automatic reflex under the conditions listed in the [Test Includes](#) Section.

Lab Testing Sections: Chemistry

Referred to: Patient reflexes will be performed at Children's Laboratory.

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: TSH: 1-2 days
FT4: 1-2 days

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container:	Preferred: Green top (Li Hep) tube Alternate: SST (Red, marble or gold) top tube, Lavender top (EDTA) tube, NaHep tube
Draw Volume:	2 mL blood
Processed Volume:	0.7 mL serum
Collection:	Routine blood collection
Special Processing:	Lab Staff: Centrifuge specimen, remove serum aliquot into a plastic sample cup. Store at 2-8 degrees Centigrade for up to 7 days.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimen

Interpretive

Reference Range:	See the following for ref ranges: TSH, Sensitive T4, Free
Critical Values:	N/A
Limitations:	See the following: TSH, Sensitive T4, Free
Methodology:	See the following: TSH, Sensitive T4, Free
References:	See the following: TSH, Sensitive T4, Free
Updates:	10/14/21: Reflexes to FT4 at Mayo discontinued 4/17/22: Changed preferred tube to Green Li Hep