



7880
Accredited to
ISO 15189:2012

TSH

Synonyms

Thyroid stimulating hormone

Clinical Indication

TSH secretion is regulated by negative feedback from serum free thyroid hormone levels. The serum TSH response to change in free T4 is logarithmic; a twofold change in free T4 induces inverse 10-100 fold changes in TSH. Thus, this negative amplified feedback as the serum T4 increases or decreases, makes TSH a sensitive marker of thyroid function which can become abnormal before there is a diagnostic change in free T4.

Part of Profile / See Also

Thyroid Function Tests. TSH is performed as a front line test. As of 09/08/22 Free T4 will no longer be provided front line as part of the TF2 profile. Exceptions are endocrinology requests and patients <18 years of age. FT4 will be reflexed if TSH is above or below the reference range.

Request Form

Combined Pathology manual Blood form or ICE request

Availability / Frequency of Analysis

On request.

Turnaround Time

Same day

Patient Preparation

None

Sample Requirements

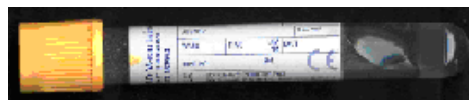
Specimen Type

Serum and plasma

Volume

1 ml

Acceptable Containers



Yellow top (SST) tube



Green top (lithium-heparin) tube



paediatric orange top (lithium-heparin)



paediatric green top (lithium-heparin)

Plain serum samples may also be used.

Reference Range & Units

TSH (mU/L)		
Age	Reference Range	Source
< 20 days	No range	
20 days - 19 years	0.79 - 5.85	Caliper study
> 20 years	0.3 - 5.0	Leeds TFT study

Interferences

Interpretation & Clinical

Decision Value (if applicable)

References

Test code

Lab Handling

Interpretive comment will be provided based on clinical information and the results.

Beckman kit insert.

TSH TF1 TF2 TF3

Analysed from primary tube and stored at 4°C.
Serum and plasma stable for 7 days at 4°C.