



Dr Khan's Diagnostic Lab and Research centre

Opp District Police Lines Near Petrol Pump
Batmallo Srinagar 190010 J&K India
Tel 0194-2484884
Email:dkldrc@gmail.com

Lab no **38914**
Patients Name **Farooq Ahmad**
Ref by

Dated **11/2/2021**
Address **Bemina**
Age

TOTAL TSH SERUM

Results

Test Description	IN RANGE	OUT OF RANGE	Reference	Units
THYROID STIMULATING HORMONE (TSH)	3.98		0.47- 5.2	uIU/ml

Serum TSH

Human thyroid stimulating hormone(TSH) is synthesized and secreted by basophils of the anterior pituitary under influence of thyroid releasing hormone (TRH) of hypothalamus. TSH stimulates production and secretion of thyroid hormones T3 & T4 by thyroid. elevated T3 & T4 serum levels in turn suppress TSH production is a negative feedback mechanism.

In primary hypothyroidism (Hashimoto's Thyroiditis) serum TSH levels is elevated. In secondary hypothyroidism (pituitary disease) & tertiary hypothyroidism (hypothalamic disorder) basal serum TSH levels may be slightly elevated with low level of serum T3 and T4. TRH (thyroid releasing hormone) test is required to differentiate these cases.


In primary hypothyroidism (e.g. Grave's disease, thyroid toxic adenoma and nodular toxic goiter) Serum TSH levels are low or undetectable with elevations in serum total T3 and total T4 levels.

Below mentioned are the age related references ranges of the TSH

Age	Reference range	Units
1-6 days	0.4-15.0	uIU/ml
1 week-1 year	0.4-10.0	uIU/ml
1-10 Years	0.5-6.0	uIU/ml
Above 10 years	0.47-5.2	uIU/ml

Test Technique:

Fully Automated chemiluminescence
Cobas e 411 Roche -Hitachi (Germany)


Signature