

TSH , ULTRASENSITIVE,  
SERUM

uIU/mL

(CLIA)

Age	Reference Range in uIU/mL
1-4 days	1.000-39.000
5 days – 5 months	1.700-9.100
5 months-20 years	0.700-6.400

REFERENCE GROUP	REFERENCE RANGE IN uIU/mL
Males > 20 years	0.550 – 4.780

Below mentioned Table to appear only for female patients > 20 years – 55 years. No value in reference range field

Interpretation

REFERENCE GROUP	REFERENCE RANGE in uIU/mL (As per American Thyroid Association)
Adult Females( > 20 years)	0.550 – 4.780
Pregnancy	
1 <sup>st</sup> Trimester	0.100 – 2.500
2 <sup>nd</sup> Trimester	0.200 – 3.000
3 <sup>rd</sup> Trimester	0.300 – 3.000

Note: 1.TSH levels are subject to circadian variation, reaching peak levels between 2 - 4.a.m. and at a minimum between 6-10 pm . The variation is of the order of 50%, hence time of the day has influence on the measured serum TSH concentrations.

2. Values  $<0.03$  uIU/mL need to be clinically correlated due to presence of a rare TSH variant in some individuals.

#### Clinical Use

- Diagnose Hypothyroidism and Hyperthyroidism
- Monitor T4 replacement or T4 suppressive therapy
- Quantify TSH levels in the subnormal range

Increased Levels: Primary hypothyroidism, Subclinical hypothyroidism, TSH dependent

Hyperthyroidism, Thyroid hormone resistance

Decreased Levels: Graves disease, Autonomous thyroid hormone secretion, TSH deficiency

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