THYROID PROFILE, FREE,

SERUM

(CLIA)

T3, Free; FT3 - pg/mL

T4, Free; FT4 - ng/dl

TSH, Ultrasensitive - uIU/mL

TEST	REFERENCE GROUP	REFERENCE RANGE	
T3 Free in pg/mL	<18 years > 18 years	2.60 - 4.80 2.30 - 4.20	
TSH, Ultrasensitive in uIU/mL	1-4 days 5 days-5 months 5 months-20 years >20 years	1.000-39.000 1.700-9.100 0.700-6.400 0.550 – 4.780	
T4, Free in ng/dL	1-4 days 5-14 days 2 weeks – 20 years > 20 years	2.20-5.30 Not Established 0.80-2.00 0.89 – 1.76	

## Interpretation

PREGNANCY	REFERENCE RANGE FOR	REFERENCE RANGE	REFERENCE RANGE
	TSH IN uIU/mL ( As per	FOR FT3 IN pg/mL	FOR FT4 IN ng/dL
	American Thyroid		
	Association)		
1 <sup>st</sup> Trimester	0.100 - 2.500	2.11-3.83	0.70 -2.00
2 <sup>nd</sup> Trimester	0.200 – 3.000	1.96-3.38	0.50 -1.60
3 <sup>rd</sup> Trimester	0.300 – 3.000	1.96-3.38	0.50 -1.60

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

- Primary Hypothyroidism
- Hyperthyroidism
- Hypothalamic Pituitary hypothyroidism
- Inappropriate TSH secretion
- Nonthyroidal illness
- Autoimmune thyroid disease
- Pregnancy associated thyroid disorders
- Thyroid dysfunction in infancy and early childhood