



3924478

Clinical Notes: Type 1 Diabetes - Insulin dependant

ENDOCRINOLOGY

BLOOD - SERUM

Result Range Units

THYROID FUNCTION TESTS

TSH	1.57	0.50 - 5.00	mIU/L	
Free T4	14.4	12.0 - 22.0	pmol/L	
Free T3	4.7	3.1 - 6.8	pmol/L	
Reverse T3	300.0	230.0 - 540.0	pmol/L	
FT3 : Reverse T3 Ratio (X 100)	1.553	1.200 - 2.200		

THYROID TEST COMMENTS

TSH has been adopted as the initial test of a thyroid function. Certain medications and conditions may affect results. Please correlate clinically. Repeat testing in 6-8 weeks if clinically indicated.

Reference ranges developed using populations without thyroid disease suggest that the optimal TSH range for thyroid function should be 0.5-2.0mIU/L.

FREE T4 and FREE T3

Free T4 and T3 represent bioactive portion of thyroid hormone. The test results can identify functional or subclinical hyper- and hypothyroidism and overt hypo- and hyperthyroidism. T4 converts to active T3 or inactive rT3.

The results should always be interpreted in association with TSH.

NORMAL FT3:

T3 is the active thyroid hormone with T4 effectively being a 'prohormone'. About 80% of T3 is formed from T4 in the tissues, with the remainder directly secreted by the thyroid.

REVERSE T3 levels can increase when peripheral conversion of T4 to active T3 is impaired. Peripheral thyroid imbalances may arise from nutrient deficiencies, heavy metal exposure, adrenal stress, enzyme deficiencies, and chronic illnesses.

ELEVATED THYROID PEROXIDASE ANTIBODIES:

Raised thyroid antibodies are associated with an increased risk of developing thyroid disease. High anti-TPO titres can be associated with chronic Hashimoto's thyroiditis and Graves' disease.

ELEVATED THYROGLOBULIN ANTIBODIES:

Elevated serum concentrations of antibodies against Tg (Tg-autoantibodies) are found in subjects with autoimmunity-based thyroiditis. High concentrations of anti Tg together with anti TPO are present in most patients with Hashimoto's disease.

THYROID AUTO-Abs

Thyroid Peroxidase Ab.	297 *H	0.0 - 35.0	IU/mL	
Anti-Thyroglobulin Ab.	246 *H	0.0 - 115	IU/mL	
TSH Receptor Ab	0.8	0.0 - 1.8	IU/L	

(*) Result outside normal reference range

(H) Result is above upper limit of reference range



P: 1300 688 522
E: info@nutripath.com.au

-.SHELLEY EGGINS
ELLO HEALTH
ONLINE CLINIC 4225

MACKENZIE TRIVETT
06-Nov-2000 **Female**

51 EVERGREEN VIEW
ROBINA QLD 4226

LAB ID : 3924478
UR NO. : 6212788
Collection Date : 04-Oct-2023
Received Date: 06-Oct-2023



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SPECIMEN RECEPTION

BLOOD - SERUM

Result Range Units

PLEASE NOTE:

The results for this episode that are out of range have been verified through repeat testing of the specimen.

Test Verification

Tests ordered: TSHA,TFT,RT3,FT3/RT3,THAB,CFee,GOG88,EndPEI,VERIF

(*) Result outside normal reference range

(H) Result is above upper limit of reference range