



### Patient Details

Ms Sample Report  
 Genova Diagnostics Europe Ltd  
 Parkgate House  
 356, West Barnes Lane  
 New Malden  
 Surrey  
 KT3 6NB

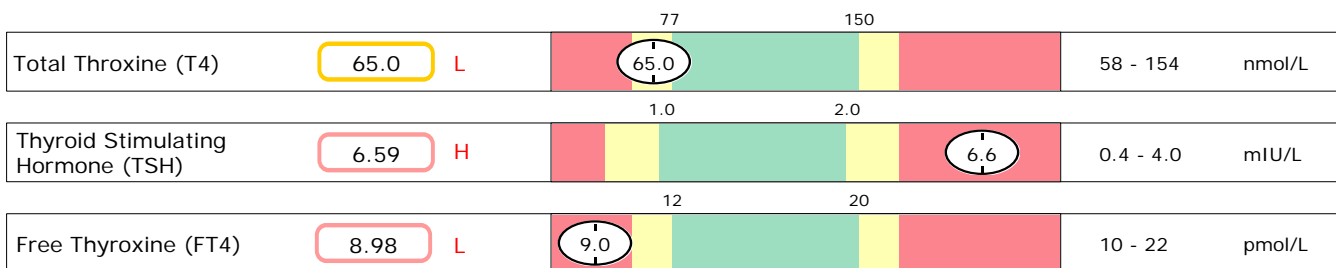
### Practitioner Details

Genova Diagnostics ( Europe )  
 Parkgate House  
 356 West Barnes Lane  
 New Malden  
 KT3 6NB

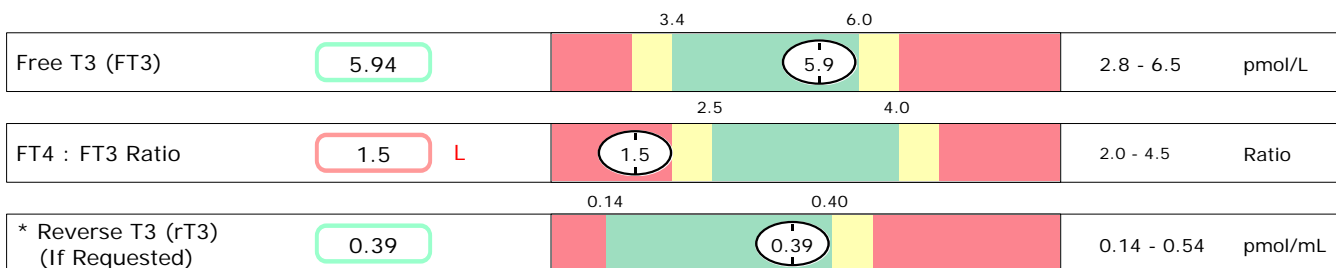
Client ID No: IWX500220  
 Accession No: A010000  
 Patients DOB: 16/07/1973  
 Sample Date & Time: 28/07/2010 10:00  
 Date Of Report: 02/08/2010 10:13

| Sample Type - Serum | Result | Optimal Range | Reference Range | Units |
|---------------------|--------|---------------|-----------------|-------|
|---------------------|--------|---------------|-----------------|-------|

### Central Thyroid Regulation & Activity

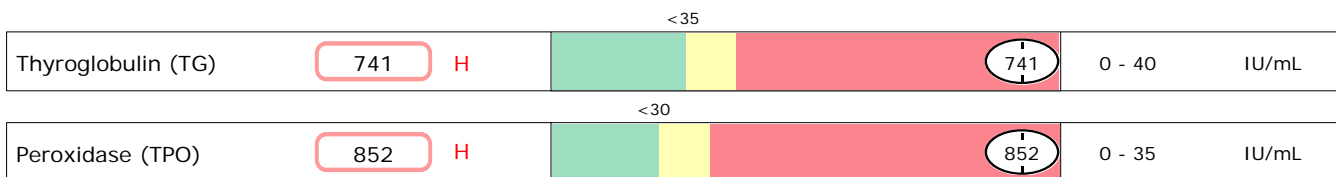


### Peripheral Thyroid Function



[ \* Analysis Performed by Genova Diagnostics USA ]

### Thyroid Auto Immunity



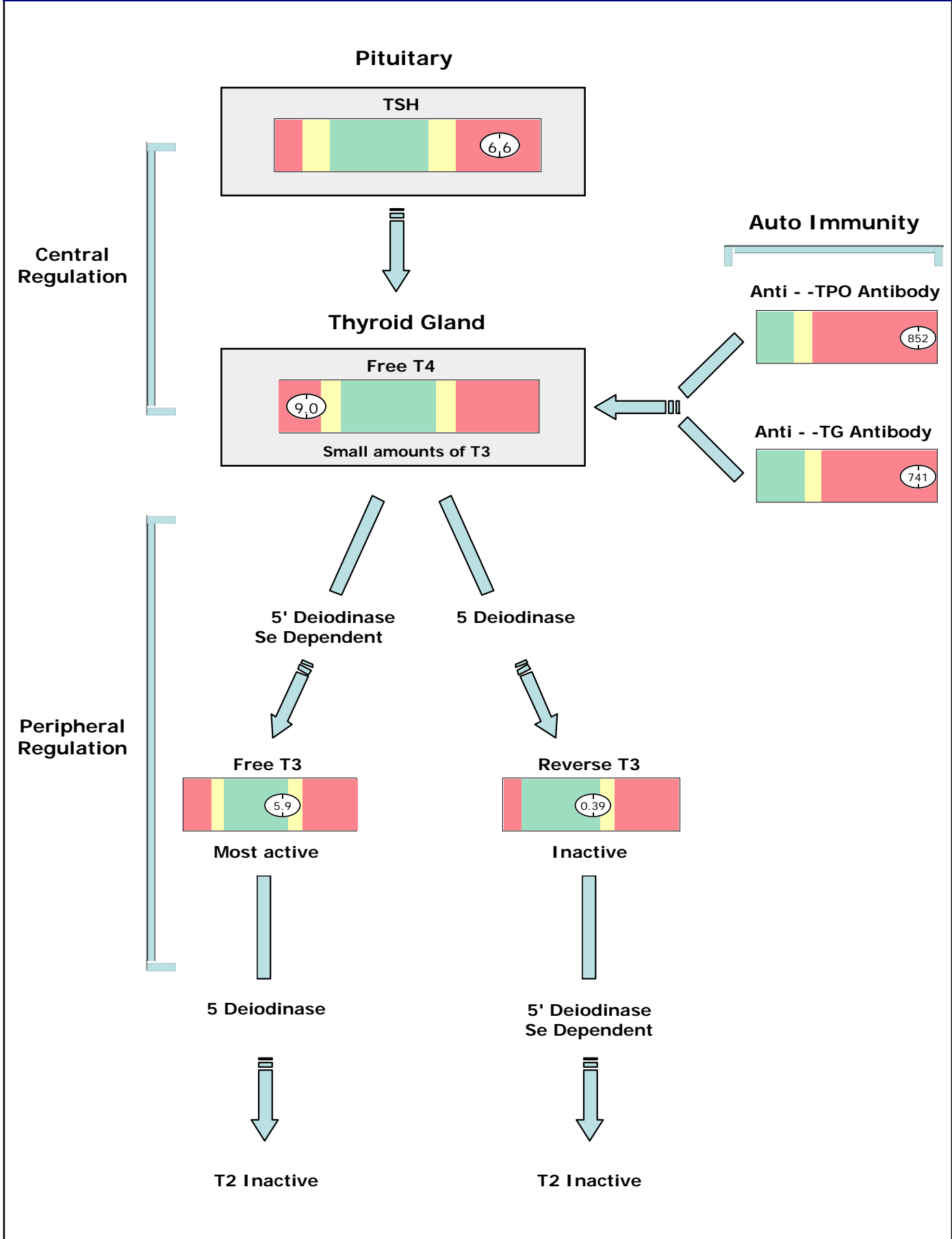
### Key Guide

- Within Optimal Range
- Outside Optimal Range but within Reference Range
- Outside Reference Range

**Reference range:** The conventional or standard laboratory normal range designed to identify and diagnose disease states and pathology.

**Optimal range:** The functional approach, orientated around changes in physiology and not pathology. This results in a tighter range, increasing the ability to detect patients with changes in physiological function.

### Thyroid Metabolism at a Glance



**Commentary**

**Primary Hypothyroidism is PROBABLE. The likelihood increases if serum tryglycerides are elevated (>4.52) and the total cholesterol levels are increased (>6.22)**

Some of the clinical signs of hypothyroidism include:

1. Difficulty losing weight
2. Mentally sluggish, reduced initiative
3. Easily fatigued, sleepy during the day
4. Sensitive to cold, poor circulation (cold hands and feet)
5. Chronic constipation
6. Excessive hair loss and / or coarse hair
7. Morning headaches, wear off during the day
8. Loss of lateral 1/3 of eyebrow
9. Seasonal sadness

**PROBABLE auto-immune thyroid disease.**

Thyroiditis is the most common thyroid condition, leading to either hypothyroidism (Hashimoto's and sub-acute thyroiditis) or hyperthyroidism (Grave's disease). Hypothyroidism due to thyroiditis is the most common. Thyroiditis can present with normal, elevated, or decreased levels of thyroid hormone at any time.

Hashimoto's and Grave's disease the levels of auto-antibodies are significantly elevated.

With sub-acute thyroiditis, the levels are usually normal or slightly increased.

Viral infection has been implicated in the etiology of sub-acute thyroiditis, including mumps virus, coxsackievirus and adenoviruses. Bacteria also implicated include: Staph aureus, Strep pneumoniae & Strep pyogenes.

**Levels of Reverse T3 appear to be within the optimal range.**