

Thyroid Hormones

FAST

SENSITIVE

RELIABLE



VitaLab

Reference <<<

- What are T3, T4, and TSH?
- T3 and T4 – What's the Difference?
- Thyroid Function Test (Thyroid Hormones) T4, T3, TSH
- Thyroid Function Tests
- Clinical Evaluation of Various Thyroid Hormones on Thyroid Function
- Thyroid hormone and the cardiovascular system

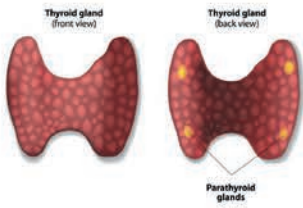
Thyroid 3 Items Test

TSH Test Kit

TT3 Test Kit

TT4 Test Kit

(Dry Fluorescence Immunoassay)



The thyroid's job is to make thyroid hormones, which are secreted into the blood and then carried to every tissue in the body.

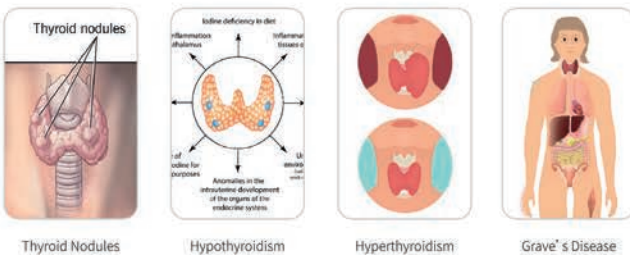
Thyroid hormones help the body use energy, stay warm and keep the brain, heart, muscles, and other organs working as they should.

Functions/Roles of the thyroid

The thyroid makes hormones that regulate all cells in the body. They help control:

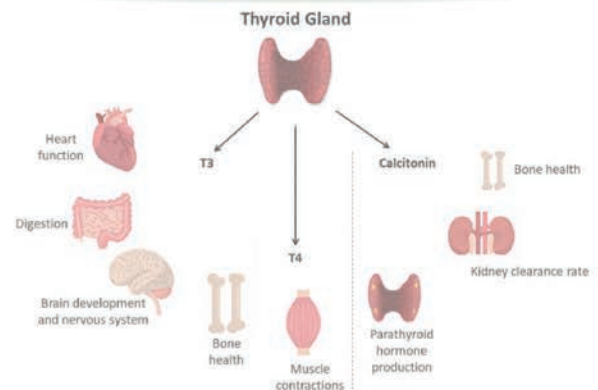
- ▶ Metabolism – breaking down foods to make energy
- ▶ Energy levels – production and use by cells in the body
- ▶ Body temperature/heat production
- ▶ Oxygen use by cells in the body
- ▶ Heart rate and blood flow
- ▶ Bone growth
- ▶ Calcium levels
- ▶ Vitamin metabolism
- ▶ Brain development, particularly before birth and during childhood
- ▶ Reproductive function

Common Problems / Disorders of the Thyroid Gland



If we discover that we have goiter during our physical examination through thyroid color ultrasound, our doctor will most likely recommend adding three thyroid function tests

Thyroid hormone production



TT3 and thyroxine TT4 are regulated by negative feedback loops. T3 and T4 are made and released in response to signals starting in the hypothalamus of the brain. The hypothalamus makes thyrotrophin releasing hormone (TRH) which signals the pituitary gland to make thyroid stimulating hormone (TSH). TSH then signals the thyroid to start making T3 and T4. When T3 and T4 levels in the blood reach a certain threshold, the hypothalamus makes less TRH and the pituitary gland makes less TSH. This system keeps the level of T3 and T4 within a narrow range.

