

Thyroid function tests are blood tests used to evaluate how effectively the thyroid gland is working. These tests mainly include the thyroid-stimulating hormone test (TSH), the thyroxine test (T4), the triiodothyronine test (T3), free triiodothyronine (fT3) and free thyroxine (fT4).



Thyroid ELISA kits

- Good correlation with reference method
- Labeled Antibody for T3, fT3 and fT4 efficiently avoids TBG interference
 - Super sensitive TSH kits
 - CE-marked

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Thyroid Gland Function

The butterfly thyroid is a small (it only weighs about one ounce), but a very important gland in the human body. It controls the metabolism and keeps the whole body functioning properly.

The thyroid's main function is to produce thyroid hormones (mainly triiodothyronine and thyroxine, commonly referred to as T3 and T4.). Hormones are chemicals secreted by glands, which act like messengers telling specific parts of the body what to do. Thyroid hormones help the body to produce energy, keep body temperature regulated and assist other organs in their function. Therefore, Thyroid function tests have become a very important part of routine clinical diagnosis.

Diagnostic Relevance

Thyroid function tests are blood tests used to evaluate how effectively the thyroid gland is working. These tests mainly include the thyroid-stimulating hormone test (TSH), the thyroxine test (T4), the triiodothyronine test (T3), free triiodothyronine (fT3) and free thyroxine (fT4).

Thyroid function tests are used to:

- help diagnose an underactive thyroid (hypothyroidism), an overactive thyroid (hyperthyroidism) and subclinical thyroid disease.
- evaluate thyroid gland activity
- monitor response to thyroid therapy
- differentiate non-thyroid disease

TSH	T4	T3	Interpretation
High	Normal	Normal	Mild (subclinical) hypothyroidism
High	Low	Low/Normal	Hypothyroidism
Low	Normal	Normal	Mild (subclinical) hypothyroidism
Low	High/Normal	High/Normal	Hyperthyroidism
Low	Low/Normal	Low/Normal	Nonthyroidal illness; Rare pituitary (secondary) hypothyroidism

Specification

T3 96 Tests, Cat. No.: E1001

Method: Enzyme Immunoassay, labeled antibody, competitive
Calibrators: 0, 0.5, 1.0, 2.5, 5, 10ng/ml
Samples: 50µl
Total assay time: 80min
Reading: 450nm
Sensitivity: 0.2ng/ml
Shelf life: 12 months

T4 96 Tests, Cat. No.: E1002

Method: Enzyme Immunoassay, competitive
Calibrators: 0, 1.0, 2.5, 5, 15, 30ug/dl
Sample: 50µl
Total assay time: 80min
Reading: 450nm
Sensitivity: 0.4ug/dl
Shelf life: 12 months

TSH 96 Tests, Cat. No.: E1003

Method: Enzyme Immunoassay, sandwich
Calibrators: 0, 0.5, 2, 5, 10, 20µIU/ml
Sample: 50µl
Total assay time: 80min
Reading: 450nm
Sensitivity: 0.05µIU/ml
Shelf Life: 12 months

fT3 96 Tests, Cat. No.: E1004

Method: Enzyme Immunoassay, labeled antibody, competitive
Calibrator: 0, 2, 5, 10, 25, 50pmol/l
Sample: 50µl
Total Assay Time: 80min
Reading: 450nm
Sensitivity: 0.8pmol/l
Shelf life: 12 months

fT4 96 Tests, Cat. No.: E1005

Method: Enzyme Immunoassay, labeled-antibody, competitive
Calibrators: 0, 5, 10, 25, 50, 100pmol/l
Sample: 50µl
Total Assay Time: 80min
Reading: 450nm
Sensitivity: 2.5pmol/l
Shelf life: 12 months

Autobio Group

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