



Thyroid Hormones

Multiple parameters offered for thyroid function testing

The thyroid gland is a butterfly-shaped organ located at the front of the neck, responsible for production of thyroid hormones which are capable of regulating diverse metabolic pathways in human body. These hormones are important for controlling heart rate, muscle and digestive function, in addition to brain development and bone tissue maintenance.

Production of thyroid hormones is controlled by a broad network formed by the hypothalamic-pituitary-thyroid axis that adapts to metabolic changes in body. Erba offers multiple parameters required for thyroid function testing. Thyroid-stimulating hormone (TSH) is produced by the pituitary gland, with TSH affecting levels of thyroid gland

hormones, thyroxin and triiodothyronine, also known as T4 and T3. TSH levels stay constant in the body and reacts to changes of T4 concentrations. However, worldwide, more than 200 million people are affected by some form of thyroid dysfunction, with females affected to much higher degree by some thyroid gland dysfunctions.

Most common thyroid gland disorders are due to over or under-production of thyroid hormones, known as hyperthyroidism and hypothyroidism. Early diagnosis of thyroid gland dysfunction is very important in order to avoid serious problems connected to unexpected changes in heart rate, weight gain or weight loss. It is also crucial in diagnosis of many mental and fertility disorders.

We have a large selection of assays in our thyroid panel:

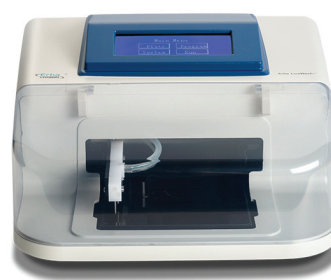
Cat. number	Product name	Parameters of the test
IME00005	TSH	Competitive ELISA for quantitative determination of TSH
IME00001	Thyroxine (T4)	Competitive ELISA for quantitative determination of T4
IME00002	Free Thyroxine (fT4)	Competitive ELISA for quantitative determination of FT4
IME00003	Triiodothyronine (T3)	Competitive ELISA for quantitative determination of total T3
IME00004	Free Triiodothyronine (fT3)	Competitive ELISA for quantitative determination of FT3
IME00077	Thyroglobulin Ag (Tg) IgG	Qualitative determination of IgG antibody to Tg
IME00078	Thyroid peroxidase (TPO) IgG	Qualitative determination of IgG antibody to TPO
IME00220*	Thyroglobulin IgG	Quantitative determination of IgG antibody to Tg
IME00221*	Anti Thyroid Peroxidase	Quantitative determination of IgG antibody to TPO

* Tests are available in some countries only, contact your local Erba representative for more information

Suitable for Erba semi and fully automated evaluation



LisaScan® EM
Semi-automated ELISA test reader



LisaWash®
Semi-automated ELISA test washer

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