



Verisana LAB • Suite LP22190 • Lower Ground Floor •
145-157 St John Street • London • EC1V 4PW

Max Mustermann
Musterstr. 1
12345 Musterstadt
Deutschland

Surname, First name Mustermann, Max

DOB 01-12-1970

Sex male

Lab number 4-4316

Report date 08-10-2021

Laboratory report

Enclosed you will find the results of your laboratory examination. In addition to your results, you will also receive a summary of the correlating effects, regarding the tested parameters. These are compiled without any knowledge on the clinical background and as such, may only be used as an interpretation aid. In case of health problems, please consult a doctor or practitioner for medical treatment and accompaniment for making the best decisions for your health. We explicitly warn against beginning, suspending, or changing any medication or therapy without consulting your doctor or practitioner.

Test: Thyroid Test

Sample material: Blood **Date collected:** 26-09-2021

Date received: 28-09-2021

| Analyte | Result | Reference Range | Result |
|----------------------------|------------|-----------------|--------|
| Thyroid Diagnostics | | | |
| fT3 | 5,4 pg/ml | 2,1-4,2 pg/ml | |
| fT4 | 1,7 ng/dl | 0,9-2 ng/dl | |
| TSH | 0,7 µIU/ml | 0,5-4,7 µIU/ml | |
| aTPO | 124 IU/ml | <= 60 IU/ml | |

fT3

T3 is a hormone secreted by the thyroid gland that regulates several metabolic activities throughout the body. Almost all the T3 circulates tightly bound to protein. Only a small fraction is unbound and biologically active (fT3). If the thyroid gland produces excessive amounts of T3, symptoms associated with hyperthyroidism, such as anxiety, weight loss, and insomnia may occur.

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ft4

T4 is the predominant hormone produced by the thyroid gland. It appears to function as a pro-hormone for the more biologically active form T3. Only free thyroxine (ft4), that comprises a small fraction of total thyroxine, can be converted to T3. Elevations in ft4 cause hyperthyroidism, while decrease causes hypothyroidism. Concentrations within the reference range indicate a normally functioning thyroid gland.

TSH

TSH is a hormone produced by the pituitary gland in the brain that controls thyroid hormone production. To maintain stable amounts of thyroid hormones, the pituitary gland produces less TSH, when ft4 and ft3 levels increase, and more TSH, when ft4 and ft3 levels decrease. TSH is considered the most important indicator for thyroid conditions. Normal TSH levels (and normal T3 and T4 concentrations) generally indicate a normally functioning thyroid gland.

aTPO

TPO is an enzyme involved in thyroid hormone synthesis. The determination of aTPO levels is the gold standard for detecting autoimmune thyroid disorders. Elevated aTPO levels are considered evidence of inflammation of the thyroid gland and often associated with autoimmune disorders, such as Graves' disease or Hashimoto's thyroiditis. In patients with normal TSH, ft3 and ft4 levels or with an early, mild form of hypothyroidism (subclinical hypothyroidism), the presence of elevated aTPO levels, predicts a higher risk of developing overt hypothyroidism.

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