



Setting a Gold Standard in Endocrinology

Free Testosterone

- * Monoclonal Antibody for better reproducibility and specificity**
- * Less interferences of matrix effect in samples**
- * Easy to automate**
- * Unsurpassed sensitivity**

Diametra is part of IDS group

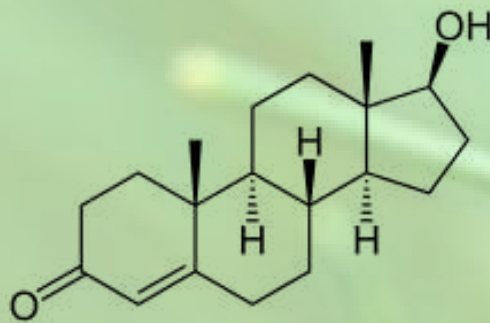
FREE TESTOSTERONE

The new Free Testosterone Assay shows high accuracy against the Gold Standard RIA method (Siemens) for female samples (in the range of 0.1-3.0 pg/ml).

With greatly reduced matrix effect and DHEAS (Dehydroepiandrosterone Sulphate) interference compared to conventional assays, this new Free Testosterone assay ensures accurate and reliable results, allowing clinicians to make better clinical decisions about the care of female patients.

The improved performance of the Diametra Free Testosterone is due to the use of a new high affinity testosterone monoclonal antibody.

This antibody allows the assay to deliver optimised recovery of free testosterone, even with female samples, and ensures excellent precision, especially at low concentration levels.



Clinical Importance

Men and women both make testosterone, a hormone that helps children develop into adult males and females.

Most of the testosterone in your blood attaches to two proteins: albumin and sex hormone binding globulin, or SHBG.

Some testosterone is unattached to proteins, or free.

It can be important to measure a person's level of free testosterone because this hormone is responsible for sexual traits.

When a boy reaches puberty, his body begins to more free testosterone. But as he ages, his testosterone levels can fall and cause health problems.

Both men and women can have other health problems because of low or high levels of free testosterone.

Women with high levels of free testosterone may have polycystic ovary syndrome (PCOS), a condition marked by infertility, lack of menstruation, acne, and excessive hair growth, especially on the face.

Men with low levels of free testosterone can lose their sex drive, suffer bone loss, or become infertile.

Why do I need this test?

You may have this test to find out whether a low sex drive is caused by a low level of free testosterone. In recent years, health care providers have used testosterone therapy to treat both men and women with low sex drives.

The test is also ordered for men with andropause, or late-onset hypogonadism, a condition caused by decreased testosterone.

Men with this condition may have:

- Anemia
- Depression
- Decreased bone density
- Lack of energy or fatigue
- Loss of muscle mass
- Poor concentration
- Erectile dysfunction or inability to have an orgasm
- Infertility

Signs and symptoms of low testosterone in women include:

- Irregular or nonexistent menstruation
- Excessive hair, especially on the face
- Blood sugar imbalance
- Infertility
- Thinning hair

What other tests might I have along with this test?

Men may have other tests, including:

- **LH, FSH, TSH, and Prolactin.** These are all hormones produced by the pituitary gland.
- **Sperm analysis.** This test counts the number of live sperm in the liquid that a man ejaculates. This test is often used to look for an infertility problem.
- **Testicular biopsy.** This is a tissue sample from the testes.

Women may have other tests, including:

- **Androstenedione, Total Testosterone, and DHEA-S**
- **Partial 21-hydroxylase deficiency evaluation.** High-risk ethnic groups include Ashkenazi, Jews.
- **LH, FSH, TSH, and Prolactin.** These are all hormones produced by the pituitary gland.

Features & Benefits:

- The test offers a high sensitivity (< 0.04 pg/mL) and simple 1 -1/4 hour assay procedure.
- 2 internal controls included
- Diametra Free Testosterone kit was compared to a commercially available kit.
 $Y = 1.81 * X + 1,71$ $r^2 = 0.94$ $n = 51$ serum samples
- Sensitivity: 0.04 pg/ml
- Analytical range: 0.2 – 100 pg/ml

REFERENCES

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ORDERING INFORMATION

Code	Item
DKO015	Free Testosterone

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