

# TSH

TSH: the "gold standard" in diagnosing and monitoring thyroid disease

## Single Panel Test Cartridge



TSH

## Advantages

- ◆ Advance and stable quality
- ◆ High sensitivity and specificity
- ◆ Wide detection range
- ◆ Easy to operate

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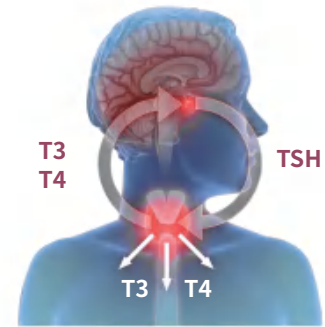
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## Definition

The thyroid is a small, butterfly-shaped gland located near the throat. The thyroid makes hormones that regulate the way the body uses energy. It also plays an important role in regulating the weight, body temperature, muscle strength, and even the mood. TSH is made in a gland in the brain called the pituitary. When thyroid levels in the body are low, the pituitary gland makes more TSH. When thyroid levels are high, the pituitary gland makes less TSH. TSH levels that are too high or too low can indicate the thyroid isn't working correctly.



## Clinical Significance

### Low Level of TSH

(Hyperthyroidism)

- ◆ Graves' Disease
- ◆ Excess iodine in the body
- ◆ Excess thyroid hormone medication
- ◆ Excess natural supplement containing thyroid hormone

### High Level of TSH

(Hypothyroidism)

- ◆ Pregnancy
- ◆ Steroid medications
- ◆ Dopamine or opioid painkillers

## Clinical Application

- ◆ Screening for thyroid dysfunction and detecting mild (subclinical), as well as overt, primary hypo- or hyperthyroidism in ambulatory patients.
- ◆ Monitoring patients on thyroid replacement therapy.
- ◆ Confirmation of thyrotropin (TSH, thyroid-stimulating hormone) suppression in thyroid cancer patients on thyroxine suppression therapy.
- ◆ Prediction of thyrotropin-releasing hormone-stimulated TSH response.

## Product Performance

Test Item	Specimen Type	Sampling	Loading	Reaction Time	Detection Range
TSH	Serum/ Plasma	40µL	80µL	20 min	0.4-100µIU/mL

## Test Procedure

