

# TSH Receptor Autoantibody (TRAb) Coated Tube

## RADIOIMMUNOASSAY

### THYROID

#### ASSAY CHARACTERISTICS

Semi-Quantitative:	Reported as U/L; or % Inhibition Index
Calibration:	4 Calibrators, 1– 40 U/L NIBSC 08/204
Controls (Included):	1 Positive, 1 Negative

#### TOTAL RUNNING TIME

3 Hours

#### SPECIMEN MATRIX

Human Serum

#### REFERENCE RANGE

≤ 1.0 U/L: Negative  
1.1 - ≤ 1.5 U/L: Borderline  
> 1.5 U/L: Positive

#### PRECISION

Intra-Assay Dose (U/L)	% CV	Inter-Assay Dose (U/L)	% CV
1.7	5.3	0.83	15.1
4.5	4.7	3.8	7.2

The KRONUS TSH Receptor Autoantibody (TRAb) Coated Tube (CT) RIA Assay Kit is designed to measure human serum autoantibodies to the thyroid stimulating hormone (TSH or thyrotropin) receptor, and is useful as an aid in the differential diagnosis of Graves' Disease.

There is convincing evidence that autoantibodies to TSH receptor (TRAb) are responsible for Graves' hyperthyroidism. These antibodies are detectable in approximately 90% of untreated Graves' patients when measured by receptor assays. The presence of TRAb indicates that the patient's thyrotoxicosis is of autoimmune etiology rather than due to toxic nodular goiter. Because the form of treatment for Graves' disease may differ from the treatment of other forms of thyrotoxicosis, an initial TRAb measurement is clearly of value.

Additionally, TRAb levels tend to fall during antithyroid drug treatment for Graves' disease. The absence of antibodies after a course of drug therapy may indicate disease remission, and the withdrawal of therapy can be considered. If TRAb are still present after a course of antithyroid drugs, the risk of relapse is high, and surgery or radioiodine therapy can be considered.

The measurement of TRAb by receptor assay provides a rapid, sensitive and inexpensive diagnostic marker for Graves' disease.



#### ORDERING INFORMATION

KR7060 — 60 Tube Kit  
KR7120 — 120 Tube Kit

For In Vitro Diagnostic Use



## ASSAY PROCEDURE

Sample Volume: 100 µL per Tube

Start Buffer into Coated Tubes: 50 µL

Calibrators, Controls and Samples into Coated Tubes: 100 µL  
2 Hour Incubation on Rotator at Room Temperature

Assay Buffer: 1 mL  
Aspirate, Decant and Repeat

<sup>125</sup>I TSH Receptor Tracer into Coated Tubes: 100 µL  
Gently Vortex Tubes  
1 Hour Incubation on Rotator at Room Temperature

Assay Buffer: 1 mL  
Aspirate, Decant and Repeat

Decant and Drain:  
Count Tubes for 1 or 2 Minutes in Gamma Counter Set for <sup>125</sup>I

Total Assay Time is Approximately 3 Hours

## REFERENCES

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