RSR

TECHNICAL INFORMATION

THYROGLOBULIN (Tg) HIGH SENSITIVITY ELISA KIT

CE

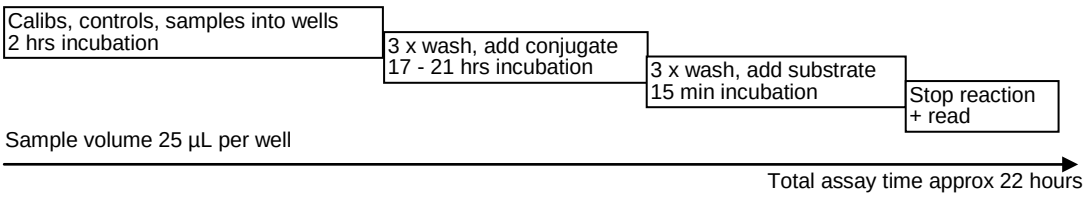
98/79/EC

ElisaRSR™ Tg

Description: Enzyme linked immunosorbent assay (ELISA) kit for the quantitative determination of thyroglobulin (Tg) in serum.

Disease application: Thyroid cancer monitoring

Assay method:



Functional Sensitivity: 0.016 ng/mL (with kit negative control assigned a value of 0.0001ng/mL)

Normal values: In 420 thyroid autoantibody negative healthy blood donor sera (36% female) Tg levels ranged from 1.5 to 590 ng/mL (mean ± SD = 33 ± 44; median = 23).
The lowest 10 sera were 1.5, 1.7, 1.8, 2.1, 2.2, 3.5, 3.5, 3.5, 3.8 and 4.3 ng/mL.
The highest 10 sera were 105, 106, 120, 128, 136, 136, 138, 305, 450 and 590 ng/mL.

Calibrator range: 0.03 – 10 ng/mL CRM 457 (Community Bureau of Reference, Brussels)

Lower detection limit: 0.015 ng/mL (mean of kit negative control + 2SD; n = 20)

Advantages: Easy to use robust assay giving far greater sensitivity than other methods

Features: Able to detect Tg in about 75% of patients with thyroid cancer treated by surgery and ^{131}I (compared to detection of Tg in about 5% by Tg IRMA).

Kit size: 96 wells

Order code: TGE/96

Literature:

G Wunderlich et al
A high-sensitivity enzyme-linked immunosorbent assay for serum thyroglobulin
Thyroid 2001 **11**: 819-824

K Zöphel et al
Serum Thyroglobulin measurements with a high sensitivity enzyme-linked immunosorbent assay: Is there a clinical benefit in patients with differentiated thyroid carcinoma?
Thyroid 2003 **13**: 861-865

M Castagna et al
The use of ultrasensitive thyroglobulin assays reduces but does not abolish the need for TSH stimulation in patients with differentiated thyroid carcinoma
J Endocrinol Invest 2011 **34**:219-223

This kit is intended for in-vitro use by professional persons only. The data quoted is for guidance only. Each laboratory should establish its own normal and pathological reference ranges for the assay and should include its own panel of control samples in the assay along with the controls provided as part of the kit.

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