

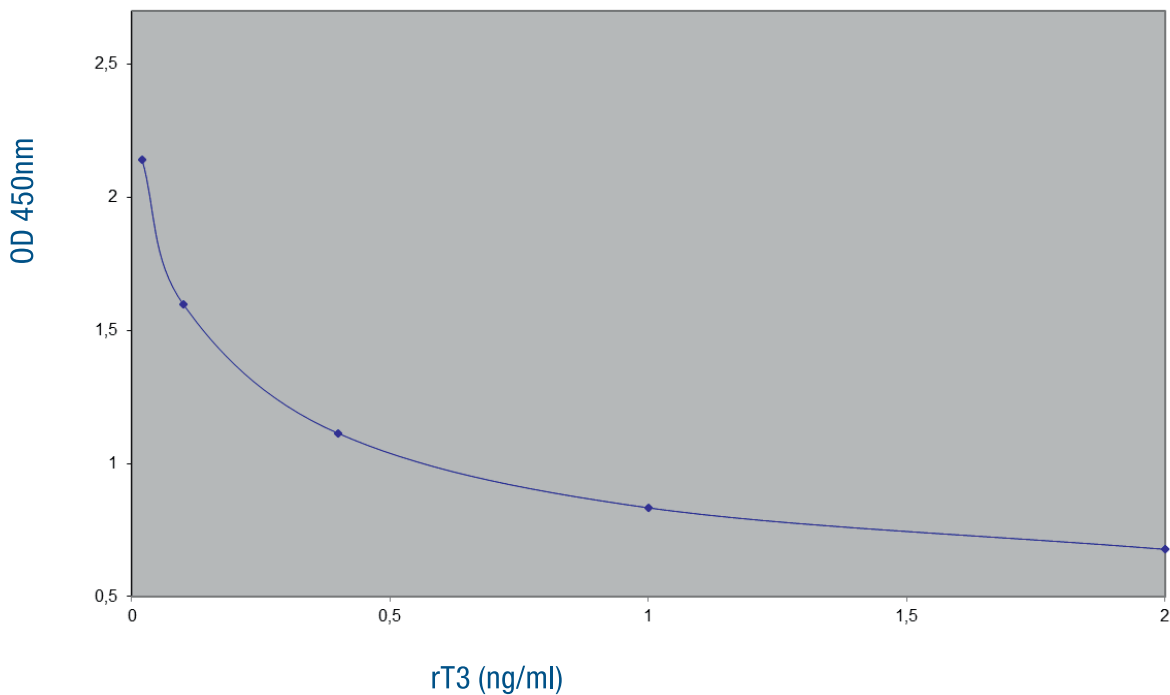
REVERSE T3 ELISA

(SERUM, PLASMA)

ADVANTAGES

- 25 µL of human serum or plasma
- Speed and ease of use: No sample preparation
- Total assay time: less than 2 hours
- Sensitivity: 0.005 ng/mL
- Cross-reactivity: T3 < 0.001%, T4 0.005%, 3,5-T2 0.004%
- Correlates with LC-MS/MS results
- Automatable
- Customer Service! – We always offer a 24 hour turn-around time on almost all technical questions

TYPICAL STANDARD CURVE



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REVERSE T3

ESSENTIAL INFORMATION

3,3',5'-Triiodo-L-thyronine also known as reverse triiodothyronine or reverse T3 (rT3), differs from 3,3',5-Triiodo-L-thyronine (T3) in the positions of the iodine atoms in the molecule. The majority of circulatory rT3 is synthesized by peripheral deiodination of thyroxine (T4).

Both T3 and rT3 bind to thyroid hormone receptors, but in contrast to T3, rT3 has not been found yet to stimulate receptor metabolic activity; it blocks receptor sites from T3 activation. The ratio of rT3 to T3 is a valuable biomarker of the metabolism and function of thyroid hormones because the process of 5' monodeiodination that converts T4 to T3 and rT3 to 3,3'-T2 is inhibited in a number of non-thyroidal conditions such as fasting, anorexia nervosa, malnutrition, diabetes mellitus, stress, severe trauma or infection, hemorrhagic shock, hepatic dysfunction, pulmonary diseases and others. This scenario is known as "Sick euthyroid" syndrome or "Low T3" syndrome.

An elevated ratio of rT3 over T3 is therefore indicative of "sick euthyroid" syndrome and helps to exclude a diagnosis of hypothyroidism, particularly in critically ill patients.

Currently clinical diagnostic rT3 testing is commercially only available through expensive technologies – LC-MS/MS or RIA – which are out of the reach for many laboratories in the world.

This ELISA is simple and accurate and quantifies rT3 over a broad measuring range.

REVERSE T3 ELISA



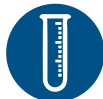
Enzyme-linked immunoassay for the quantitative determination of rT3 in plasma and serum.



No sample preparation. 96 wells per kit. 6 standards, 2 controls, ready for use.



Time: 1 h 45 min.



Plasma and serum.

KIT DETAILS REVERSE T3 ELISA – TECHNICAL DATA

CAT NO.	SAMPLE SIZE	STANDARDS	SENSIVITY	FORMAT
TF E-2500	25 µl plasma, serum	0/0.02 - 2 ng/ml	0.009 ng/ml	96 tests