

Thyroxine (T4) ELISA Kit | T4 elisa kit

Thyroxine (T4) ELISA Kit

CATALOG # AAA332601	REACTIVITY Human, Mouse, Rat, Goat, Sheep, Dog, Rabbit, Bovine, Monkey, Chicken, Swine	APPLICATIONS ELISA
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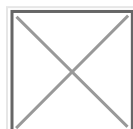
PRODUCT SYNONYMS

Thyroxine (T4); Thyroxine (T4) ELISA Kit; T4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat, Goat, Sheep, Dog, Rabbit, Bovine, Monkey, Chicken, Swine
Specificity	Thyroxine (T4) ELISA Kit has high sensitivity and excellent specificity for detection of T4. Nosignificant cross-reactivity or interference between T4 and analogues was observed.
Assay Type	Competitive
Samples	Serum, Plasma
Detection Range	20 ng/mL-320 ng/mL
Sensitivity	10 ng/mL
Applicable Applications for T4 elisa kit	ELISA
Intra-assay Precision	Intra-assay Precision: The CV (%)?15%.
Inter-assay Precision	Inter-assay Precision :The CV (%)?15%
Preparation and Storage	The unopened kit should be stored at 2 - 8 degree C. After opening, please store refer to protocols.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for T4 elisa kit	Principle of the Assay: T4 is a useful marker for the identification of hypothyroidism and hyperthyroidism. The level of T4 is decreased in hypothyroidpatients and is increased in hyperthyroid patients. The major form of thyroid hormone in the blood is thyroxine (T4), which has alonger half-life than T3. In humans, the ratio of T4 to T3 released into the blood is between 14:1 and 20:1. T4 is converted to theactive T3 (three to four times more potent than T4) within cells by deiodinases (5'-iodinase). These are further processed bydecarboxylation and deiodination to produce iodothyronamine (T1a) and thyronamine (T0a). All three isoforms of the deiodinasesare selenium-containing enzymes, thus dietary selenium is essential for T3 production. Edward Calvin Kendall was responsible forthe isolation of thyroxine in 1915.Thyroxine (T4) ELISA Kit employs the competitive inhibition enzyme immunoassaytechnique. The microtiter plate provided in this kit has been pre-coated with an antibody specific to T4. Standards or samples areadded to the appropriate microtiter plate wells with Biotin-conjugated T4. A competitive inhibition reaction is launched between T4(Standards or samples) and Biotin-conjugated T4 with the pre-coated antibody specific for T4. The more amount of T4 in samples,the less antibody bound by Biotin-conjugated T4. After washing, Avidin-HRP is added to the wells. Substrate solution is added tothe wells and the color develops in opposite to the amount of T4 in the sample. The color development is stopped and the intensityof the color is measured.
Product Categories/Family for T4 elisa kit	ELISA Assay Kit; Protein

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/bovine-chicken-dog-goat-human-monkey-mouse-ovine-rabbit-rat-elisa-kits/thyroxine-t4/332601>