

Free Thyroxine (fT4) CLIA Kit | fT4 clia kit

General Free Thyroxine (fT4) CLIA Kit

CATALOG #
AAA151165

REACTIVITY
General species

PRODUCT SYNONYMS

Free Thyroxine (fT4); General Free Thyroxine (fT4) CLIA Kit; fT4/Free Thyroxine; FTI; fT4 clia kit

PRODUCT SPECIFICATIONS

Reactivity	General species
Specificity	This assay has high sensitivity and excellent specificity for detection of free thyroxine. No significant cross-reactivity or interference between free thyroxine and analogues was observed.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	781.25-200,000fg/mL
Sensitivity	< 272.41fg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level free thyroxine were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level free thyroxine were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term(within shelf life) Shelf Life: 8 months The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

ADDITIONAL INFORMATION

Related Product Information for fT4 clia kit

Principle of the Assay: The microplate provided in this kit has been pre-coated with a monoclonal antibody specific to free thyroxine. A competitive inhibition reaction is launched between biotin labeled free thyroxine and unlabeled free thyroxine (Standards or samples) with the pre-coated antibody specific to free thyroxine. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of free thyroxine in the sample. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is reverse proportional to the free thyroxine level in the sample or standard.

Intended Uses: The Chemiluminescent Immunoassay kit is designed for the in vitro sensitive quantitative measurement of free thyroxine in serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.

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.