Rat thyroxine,T4 ELISA Kit

Product Code	CSB-E05082r
Abbreviation	T4
Protein Biological Process 1	Thyroid function
Target Name	thyroxine,T4
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, cell culture supernates, tissue homogenates, cell lysates
Detection Range	20 ng/mL-320 ng/mL
Sensitivity	20 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Signal Transduction
Tag Info	quantitative
Protein Description	Competitive

Description

The rat thyroxine (T4) ELISA kit is a quantitative assay suitable for measuring thyroxine levels specifically in rat samples, including serum, plasma, cell culture supernates, tissue homogenates, and cell lysates. It can detect thyroxine in the range of 20 ng/mL to 320 ng/mL, with a sensitivity of 20 ng/mL. The kit employs a competitive method, and the measurement is done at a detection wavelength of 450 nm. The assay can be completed within 1 to 5 hours, requiring a sample volume of 50-100 µl. This kit has been utilized in over 27 papers, showcasing its reliability and widespread acceptance in research involving rat thyroxine levels.

Product Precision

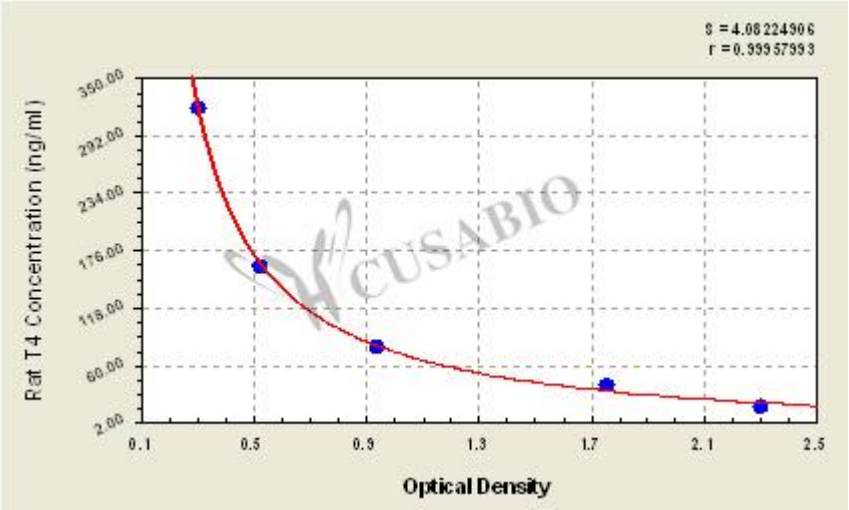
Intra-assay Precision (Precision within an assay): CV%<15%
Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<15%
Three samples of known concentration were tested in twenty assays to assess.

	Intra-Assay Precision			Inter-Assay Precision		
Sample	1	2	3	1	2	3
n	20	20	20	20	20	20
Mean(ng/ml)	80.875	80.758	80.671	80.224	81.047	79.005
SD	0.050	0.071	0.060	0.076	0.050	0.044
CV(%)	5.534	7.809	6.662	8.332	5.544	4.754

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average
20	2.307	2.303	2.305
40	1.739	1.748	1.744
80	0.911	0.907	0.909
160	0.483	0.484	0.484
320	0.256	0.262	0.259