Datasheet for ABIN5653982

Estradiol CLIA Kit

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Overview

Quantity:	96 tests
Target:	Estradiol
Reactivity:	Various Species
Method Type:	Competition ELISA
Detection Range:	3.91 pg/mL - 1000 pg/mL
Minimum Detection Limit:	3.91 pg/mL
Application:	ELISA

Product Details

Sample Type:	Cell Culture Supernatant, Cell Lysate, Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Chemiluminescent
Specificity:	This assay has high sensitivity and excellent specificity for detection of Estradiol (E2). No significant cross-reactivity or interference between Estradiol (E2) and analogues was observed.
Sensitivity:	1.6 pg/mL

Target Details

Target:	Estradiol
Abstract:	Estradiol Products
Background:	Gene Name: Estradiol

Target Details

	Gene Aliases: 17B-Estradiol, Oestradiol, Beta-Estradiol

Application Details

Comment:	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.
Assay Time:	2 h
Plate:	Pre-coated
Protocol:	The microplate provided in this kit has been pre-coated with a monoclonal antibody specific to Estradiol (E2). A competitive inhibition reaction is launched between biotin labeled Estradiol (E2) and unlabeled Estradiol (E2) (Standards or samples) with the pre-coated antibody specific to Estradiol (E2). 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 Estradiol (E2) 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 Estradiol (E2) level in the sample or standard.
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Estradiol (E2) were tested 20 times on one plate, respectively Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Estradiol (E2) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
Restrictions:	For Research Use only

Handling

Handling Advice:	Do not allow to contact skin or eyes. Calibrators, controls and specimen samples should be assayed in duplicate. Once the procedure has been started, all steps should be completed without interruption.
Storage:	4 °C,-20 °C

Handling

Storage Comment:	-20°C. Bring all reagents to room temperature before beginning test. The kit may be stored at 4°C for immediate use within two days upon arrival. Reseal any unused strips with desiccant pack. Minimize freeze/thaw cycles.
Expiry Date:	4-8 months