

Estradiol Assay Kit

Estradiol EIA Kit

CATALOG #
AAA71803

PRODUCT SYNONYMS

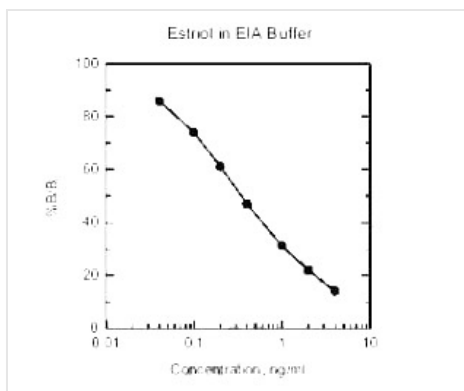
Estradiol; Estradiol EIA Kit; Estradiol Enzyme Immunoassay; Estradiol assay kit

PRODUCT SPECIFICATIONS

Preparation and Storage

4 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Estradiol assay kit

Principle of the Assay: This is an ELISA (Enzyme-Linked Immunosorbent Assay) for the quantitative analysis of Corticosterone levels in biological fluid. This test kit operates on the basis of competition between the enzyme conjugate and the corticosterone in the sample for a limited number of binding sites on the antibody coated plate. The sample or standard solution is first added to the microplate. Next, the diluted enzyme conjugate is added and the mixture is shaken and incubated at room temperature for one hour. During the incubation, competition for binding sites is taking place. The plate is then washed, removing all the unbound material. The bound enzyme conjugate is detected by the addition of the substrate that generates an optimal color after 30 minutes. Quantitative test results may be obtained by measuring and comparing the absorbance reading of the sample wells against the wells of the standard curve with a microplate reader at 650 nm. The extent of color development is inversely proportional to the amount of corticosterone in the sample or standard. For example, the absence of corticosterone in the sample will result in a bright blue color, whereas the presence of corticosterone will result in decreased or no color development!!

Background/Introduction: Corticosterone is a glucocorticoid secreted by the adrenal cortex in response to stress. Glucocorticoids are also essential for proper metabolism of fats, proteins and carbohydrates in the body. While cortisol and corticosterone are both produced in response to stress in humans, corticosterone is the predominant glucocorticoid produced in mice and rats. Corticosterone has also been used as a predictor of stress in a variety of wild animals. In particular, corticosterone levels were increased in Galapagos marine iguanas under famine conditions brought on by El Nino. While not always predictive of environmental stress in the wild², conditions such as starvation, rapid temperature change or changes in daily routine can cause increased corticosterone levels in laboratory mice and rats. Corticosterone is also administered to treat inflammation because like many other steroids, it is a powerful anti-inflammatory agent.

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://www.aaabiotech.com/assay-kits/estradiol/71803>