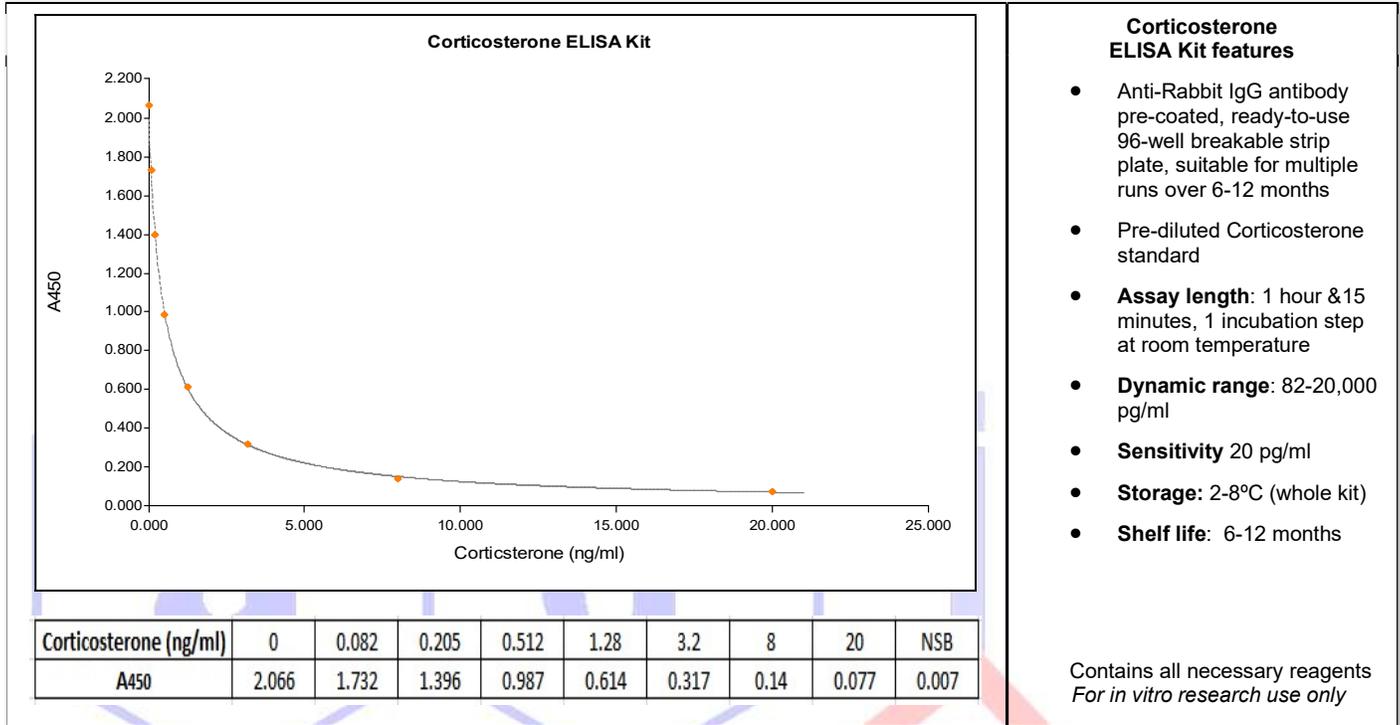


The Corticosterone ELISA Kit is a highly sensitive competitive ELISA for the measurement of Corticosterone in Serum, Plasma, culture medium, Urine, Saliva, Feces extracts, and other appropriately qualified matrices.



**Corticosterone ELISA Kit features**

- Anti-Rabbit IgG antibody pre-coated, ready-to-use 96-well breakable strip plate, suitable for multiple runs over 6-12 months
- Pre-diluted Corticosterone standard
- **Assay length:** 1 hour & 15 minutes, 1 incubation step at room temperature
- **Dynamic range:** 82-20,000 pg/ml
- **Sensitivity** 20 pg/ml
- **Storage:** 2-8°C (whole kit)
- **Shelf life:** 6-12 months

Contains all necessary reagents  
*For in vitro research use only*

**Assay Procedure: Allow all reagents to reach room temperature. Arrange and label required number of strips.**

- Step 1.** Pipette 10 µl of sample or standards, 40 µl of diluted HRP, and 50 µl of diluted anti-sera into the appropriate wells and incubate for 1 hour at room temperature.
- Step 2.** Wash the wells 5X with 300 µl of wash buffer per well
- Step 3.** Add 100 µl of TMB Substrate solution to all wells, mix gently, and incubate at room temperature for 15 minutes.
- Step 4.** Pipette 100 µl of stop solution into each well and mix gently. Measure at 450 nm w/ 630 nm as a reference filter if available.

**Performance Characteristics**

**Sensitivity:** ~20 pg/ml

**Average recovery:** 100 ±15%

**Average linearity:** 100 ±15%

**Precision:** Intra-assay: <10% Inter-assay: <10%

**Species reactivity:** Species independent, not recommended for use with Human and Rabbit serum or plasma

**Cross reactivity:** 1.97% Deoxycorticosterone, 0.061% 11-Desoxycortisol, 0.056% Cortisol. <0.001% Aldosterone, Pregnenolone, Progesterone, 17-OH-Pregnenolone, 17-OH-Progesterone, Adrostanediol, Androstenedione, Androsterone, Dehydroepiandrosterone, Dehydroepiandrosterone-SO<sub>4</sub>, 5a-Dihydrotestosterone, Testosterone, Estradiol-17B, Estradiol-17a, Estrone, and Estriol.

**Minimum recommended dilution**

**Serum, Plasma, Culture medium, Saliva, Urine, & \*Feces extract:** 10-fold

**Note:** Minimum recommended dilution represents the dilution which is needed to eliminate matrix interference effects and obtain optimal recovery. All samples must be diluted to at least the minimum recommended ratio. Samples may be further diluted if the sample values fall within the standard curve, if sample volume is to be preserved, or if the sample value is above the highest OD on the standard curve. \*Feces should be diluted after extraction is performed.

**General Information**

Corticosterone is a glucocorticoid secreted by the cortex of the adrenal gland. Corticosterone is produced in response to the stimulation of the adrenal cortex by adrenocorticotrophic hormone. Corticosterone production has been shown to increase with stress.