Corticosterone ELISA kit

Highly sensitive corticosterone ELISA kit, species independent, used for animal stress research.

The Corticosterone ELISA kit is a colorimetric competitive enzyme immunoassay kit with results in 3 hours. Absorbance is read at 405 nm. The Corticosterone ELISA kit has low cross-reactivity with related steroids. The broad dynamic range makes this kit ideal for a wide variety of sample matrices from any species.

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 adrenocorticotropic hormone (ACTH) and is the precursor of aldosterone. Corticosterone production has been shown to increase with stress, with elevated corticosterone levels being associated with impairment of long term memory retrieval and following burn injury. In addition to stress levels, corticosterone is believed to play a decisive role in sleep-wake patterns.

Citations: 500 View Online »

Ordering Information

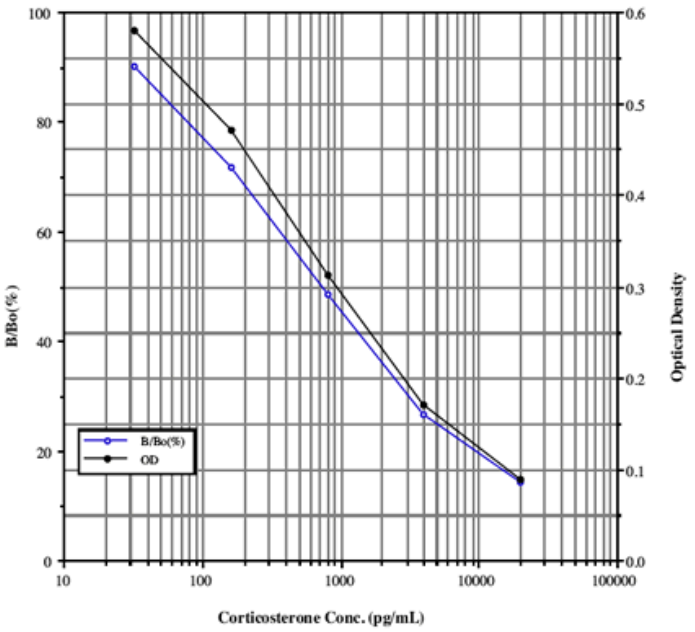
Order Online »

ADI-900-097	96 wells

Manuals, SDS & CofA

View Online »

- Sensitive measurement of Corticosterone, detecting as little as 27 pg/ml
- High throughput format with results in 3 hours for up to 39 samples in duplicate
- Broad dynamic range
- Species independent
- Routinely used to monitor stress levels in zoo animals


B/Bo(%)
Optical Density
Corticosterone Conc. (pg/mL)
B/Bo(%)
OD
100
80
60
40
20
0
0.6
0.5
0.4
0.3
0.2
0.1
0.0
10
100
1000
10000
100000

Handling & Storage

Long Term Storage	+4°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Application	Colorimetric detection, ELISA
Application Notes	For the quantitative determination of Corticosterone in culture supernatants, feces, plasma, serum, and saliva from any species. Cited sample types include cell lysate, urine and whole blood.
Assay Time	3 hours
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	DxS IgG Microtiter plate, Assay buffer 15 concentrate, Steroid displacement reagent, Conjugate, Antibody, Wash buffer concentrate, Standard, pNpp Substrate, Stop solution
Crossreactivity	Corticosterone (100%), Deoxycorticosterone (21.3%), Desoxycorticosterone (21.0%), Progesterone (0.46%), Testosterone (0.31%), Tetrahydrocorticosterone (0.28%), Aldosterone (0.18%), Cortisol (0.046%) and <0.03%: Pregnenolone, Estradiol, Cortisone, 11-dehydrocorticosterone acetate
Sensitivity	27.0 pg/ml (range 32 – 20,000 pg/ml)
Species Reactivity	Species independent
Technical Info / Product Notes	**Cited samples:** Hormone ELISAs: Cited Samples Wildlife Endocrinology: Cited Sample Types
Wavelength	405 nm

Last modified: May 29, 2024

ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

For local distributors and detailed product information visit us online: enzo.com All product names, logos, and brands are the property of their respective owners.