



Cortisol EIA Kit

Catalog number: EK7119

For detection of multiple analytes using one single assay.

This package insert must be read in its entirety before using this product.

For research use only. Not for use in diagnostic procedures.

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Size: 96 wells/kit

Sample Type: Dried Fecal Samples, Saliva, Urine, Serum, EDTA Plasma, Heparin Plasma, Tissue Culture Media

Sensitivity: 17.3 pg/ml

Assay Range: 100 - 3200 pg/ml

Storage: Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Kit Components

Description	Quantity
Clear Microtitre 96 well Plate	1 Plate
Cortisol Standard	125 µl
Cortisol Antibody	3 ml
Cortisol Conjugate	3 ml
Assay Buffer	50 ml
Dissociation Reagent	1 ml
Wash Buffer Concentrate	50 ml
TMB Substrate	11 ml
Stop Solution	5 ml
Plate Cover	1 Each

Materials Required, but Not Provided

1. Distilled or deionized water
2. Repeater pipet with disposable tips capable of dispensing 25 µL, 50 µL and 100 µL.
3. Colorimetric 96 well microplate reader capable of reading optical density at 450 nm.
4. Software for converting raw relative optical density readings from the plate reader and carrying out four parameter logistic curve (4PLC) fitting. Contact your plate reader manufacturer for details.

Intra/Inter Assay Precision

Intra Assay Precision: Three human samples were diluted with Assay Buffer and run in replicates of 20 in an assay. The mean and precision of the calculated Cortisol concentrations were:

Sample 1- 1174.3 pg/mL, 6% CV

Sample 2- 475.9 pg/mL, 5.6% CV

Sample 3- 177.4 pg/mL, 14.7% CV

Inter Assay Precision: Three human samples were diluted with Assay Buffer and run in duplicates in ten assays run over multiple days by four operators. The mean and precision of the calculated Cortisol concentrations were:

Sample 1- 1188.1 pg/mL, 7.2% CV

Sample 2- 508.7 pg/mL, 6.3% CV

Sample 3- 199.7 pg/mL, 10.9% CV

Assay Overview

The Cortisol EIA kit is designed to quantitatively measure cortisol present in dried fecal extracts, saliva, urine, serum, plasma and tissue culture media samples. This kit measures total cortisol in extracted samples and in serum and plasma and free cortisol in saliva and urine. A cortisol standard is provided to generate a standard curve for the assay and all samples should be read off the standard curve. Standards or diluted samples are pipetted into a clear microtiter plate coated with an antibody to capture mouse antibodies. A cortisol-peroxidase conjugate is added to the standards and samples in the wells. The binding reaction is initiated by the addition of a monoclonal antibody to cortisol to each well. After an 1 hour incubation the plate is washed and substrate is added. The substrate reacts with the bound cortisol-peroxidase conjugate. After a short incubation, the reaction is stopped and the intensity of the generated color is detected in a microtiter plate reader capable of measuring 450 nm wavelength. The concentration of the cortisol in the sample is calculated, after making suitable correction for the dilution of the sample, using software available with most plate readers.

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