

ESTRADIOL ELISA KIT

Catalog number

Estradiol ELISA Kit.....80962

Intended use

A high quality enzymatic assay for the quantification of estradiol in human serum.

Test principle

Crystal Chem's Estradiol ELISA kit is a competitive ELISA for estradiol. It utilizes a specific antibody immobilized onto microplate wells and a labeled antigen conjugated with HRP. The unlabeled antigen present in the sample, standard, or control is incubated in the microplate well with HRP labeled antigen. Both the labeled and unlabeled antigen compete for binding to the immobilized antibody. After incubation, all unbound antigen is removed via a wash step. Subsequently, a substrate solution and stop solution are added, and estradiol levels of the samples can be measured by color intensity.

Specifications

Sample Types	Serum
Assay Time	1 hour 50 minutes
Range	10 - 1,000 pg/mL
Sample Size	25 μ L
Precision	CV < 10%
Sensitivity	10 pg/mL

Highlights

- ✓ Kit uses 25 μ L sample
- ✓ Fast assay time (< 2 hours)
- ✓ Wide dynamic working range
- ✓ No special pretreatment of sample is necessary

Summary of protocol

Add 25 μ L of sample or calibrator to wells
↓
Add 100 μ L HRP conjugate solution
↓
Add 50 μ L anti-estradiol reagent
↓
Incubate for 90 minutes at room temperature
↓
Wash plate
↓
Add 100 μ L substrate solution
↓
Incubate for 20 minutes at room temperature
↓
Add 100 μ L of stop solution
↓
Measure OD at 450 nm

