

CATALOG# 80972

# PROGESTERONE ELISA (SERUM) KIT

## Catalog number

Progesterone ELISA (Serum) Kit.....80972

## Intended use

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

## Test principle

Crystal Chem's Progesterone ELISA (Serum) kit is a competitive ELISA for progesterone. 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 progesterone levels of the samples can be measured by color intensity.

## Specifications

<b>Sample Types</b>	Serum
<b>Assay Time</b>	1 hour 50 minutes
<b>Range</b>	0.5 - 50 ng/mL
<b>Sample Size</b>	25 $\mu$ L
<b>Precision</b>	CV < 10%
<b>Sensitivity</b>	0.063 ng/mL

## Highlights

- ✓ Kit uses 25  $\mu$ L sample
- ✓ Fast assay time (< 2 hours)
- ✓ Wide dynamic working range
- ✓ High sensitivity (0.063 ng/mL)

## Summary of protocol

```

graph TD
    A[Add 25  $\mu$ L of sample or calibrator to wells] --> B[Add 100  $\mu$ L HRP conjugate solution]
    B --> C[Add 50  $\mu$ L anti-progesterone reagent]
    C --> D[Incubate for 90 minutes at room temperature]
    D --> E[Wash plate]
    E --> F[Add 100  $\mu$ L substrate solution]
    F --> G[Incubate for 20 minutes at room temperature]
    G --> H[Add 100  $\mu$ L of stop solution]
    H --> I[Measure OD at 450 nm]
  
```

