

# RAT PROGESTERONE ELISA KIT

## Catalog number

Rat Progesterone ELISA Kit .....80558

## Intended use

A high quality enzymatic assay for the quantification of rat progesterone in rat serum and plasma.

## Test principle

Crystal Chem's Rat Progesterone ELISA kit is an enzyme-linked immunosorbent assay based on the principle of competitive binding. An unknown amount of progesterone present in the sample and a defined amount of progesterone conjugated to horseradish peroxidase compete for the binding sites of progesterone antiserum coated to the wells of a microplate. After incubation and a wash step, a substrate solution is added, and the concentration of progesterone is inversely proportional to the optical density measured.

## Specifications

|                     |                  |
|---------------------|------------------|
| <b>Sample Types</b> | Serum and Plasma |
| <b>Assay Time</b>   | 1.5 hours        |
| <b>Range</b>        | 0.4 - 100 ng/mL  |
| <b>Sample Size</b>  | 10 $\mu$ L       |
| <b>Precision</b>    | CV < 10 %        |
| <b>Sensitivity</b>  | 0.04 ng/mL       |

## Highlights

- ✓ Kits use only 10  $\mu$ L sample
- ✓ No separate extraction required
- ✓ High sensitivity (0.04ng/mL)
- ✓ Low cost per sample

## Summary of protocol

Add 10  $\mu$ L sample or standard per well  
↓  
Add 50  $\mu$ L incubation buffer  
↓  
Add 50  $\mu$ L enzyme conjugation solution  
↓  
Incubate for 1 hour, room temperature (600 RPM)  
↓  
Wash plate  
↓  
Add 200  $\mu$ L substrate solution  
↓  
Incubate for 30 minutes in the dark  
↓  
Add 50  $\mu$ L stop solution  
↓  
Measure OD at 450/630 nm

