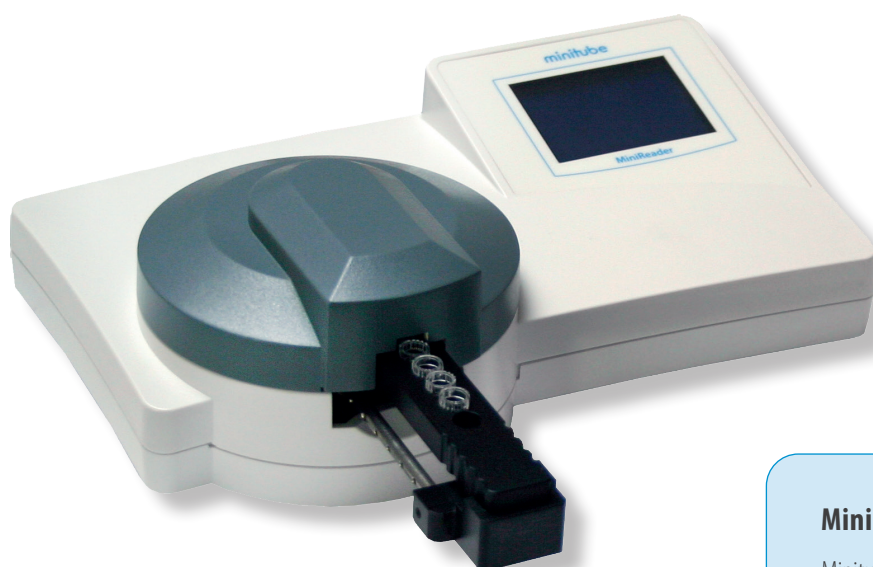


# ELISA PROGESTERONE TEST FOR YOUR VETERINARY PRACTICE



## MiniReader

Progesterone test for fast and reliable  
determination of ideal insemination or  
breeding time



### MiniReader Progesterone ELISA test

Minitube's highly accurate MiniReader measures the amount of Progesterone present in canine blood serum using ELISA (Enzyme Linked Immunosorbent Assay). Specific antibody/antigen binding produces a concentration-dependent, photometrically detectable colour change.

**Easy to read, reliable results.**

## MiniReader

The **MiniReader** is an affordable, accurate and reliable device to read and provide the results of Minitube's ELISA test within 35 minutes. It is used with the ELISA test kit.

### Application in female dogs:

- Detection of ovulation
- Determination of the ideal time for artificial insemination or natural breeding

The Progesterone concentration reading is based on a standard curve derived from three standards and is therefore very accurate. The colour change of the sample is automatically detected by the MiniReader and converted into ng/ml Progesterone.

### Your benefits

- Small sample is needed (0.02 ml of blood serum)
- Fast and accurate results in just over half an hour for immediate assessment – any day of the week
- Accurate and consistent readings as absolute progesterone concentration is shown in ng/ml (not only relative readings of 'high' or 'low')
- Small device fits anywhere
- Size of test kit adapted to the needs of veterinarians
- Easy handling and maintenance

### Technical features

- Operating voltage : 12 V
- Dimensions: approx. 250 x 65 x 130 mm (width x height x depth)
- Weight: approx. 1.3 kg
- Ambient temperature: +5°C to +45°C

**MiniReader**

REF. : **21900/0000**



## ELISA test kit

The ELISA test kit contains all reagents and consumables needed to perform analyses of 10 to 25 serum samples:

- Standard 1, 2, 3
- Reagents
- Washing solution
- Coated wells

### Test kit for measuring Progesterone in canine serum

10 to 25 samples

REF. : 21900/1110



## Accessories

### Warming unit for sample incubation during the ELISA reaction

Optimal conditions for ELISA reaction occur at 37°C and in the absence of light. The well holder is transferred directly to the MiniReader after the ELISA reaction is finished.

#### Warming unit

REF. : 21900/0100

#### Digital pipette, 20 - 200 µl

REF. : 12427/3120

#### Pipette tips, 0.5 - 250 µl, 1000/bag

REF. : 12427/0255

### What do I need to start:

- **MiniReader** (Ref.: 21900/0000)
- **Test kit** (Ref.: 21900/1110)
- **Warming unit** (Ref.: 21900/0100)
- **Pipette and tips** (Ref.: 12427/3120 & 12427/0255)





## Technical background

ELISA (Enzyme Linked Immunosorbent Assay) is an analytical assay to detect the presence of a specific substance in a liquid sample. This is performed by antigen-antibody binding, where the antibody is linked to an enzyme and added to the sample with the antigen.

The reaction will produce a signal, most commonly a colour change, indicating the quantity of antigen (in this case Progesterone) in the sample. This change in colour is detected by the MiniReader through photometry. The result is displayed in ng/ml based on a specific calibration curve derived using three standards.

### Comparison of MiniReader to a reference method

Serum samples (67) from female dogs were sent to a standard laboratory as reference. The same samples were analysed with the MiniReader test kit and measured with the MiniReader. A high conformity over the entire range could be confirmed (Figure).

The correlation is represented by the linear regression line. An  $R^2$  of 87.2 % indicates a very good correlation to the reference values.

The MiniReader and MiniReader test kits are a thoroughly tested and very reliable method for measuring the progesterone level in canine serum samples. The results shown in ng/ml on the display allow an immediate assessment of the Progesterone level. The MiniReader is a valuable diagnostic tool for deciding further treatment of the animal.

The test kit used with the MiniReader includes reagents for the ELISA reaction, sample wells and three standards. The standards contain a defined concentration of synthetic progesterone and are prepared using the identical procedure as that for the samples. The standard values allow an adjustment of the internal calibration curve of the MiniReader to eliminate factors, other than Progesterone concentration, which could influence the result.

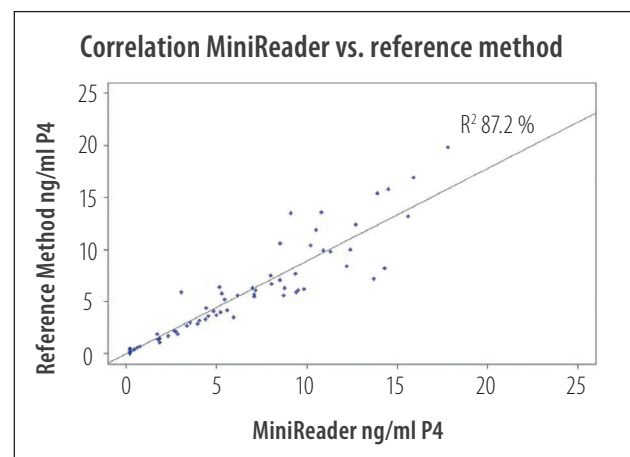


Figure: Correlation of standard laboratory vs. MiniReader values for 67 serum samples.

Complete technical report available as a download: [www.minitube.com/media/media-library](http://www.minitube.com/media/media-library)

