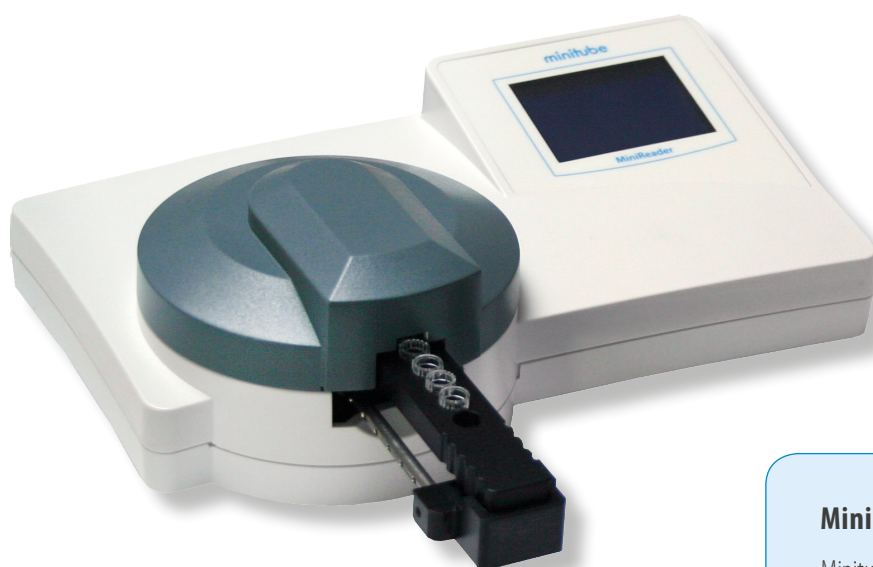


ELISA PROGESTERONE TEST FOR FARMS - VETERINARIANS - RESEARCH



MiniReader

Progesterone test for fast and reliable
determination of ideal insemination time,
heat, cycle activity, pregnancy and more



MiniReader Progesterone ELISA test

Minitube's highly accurate MiniReader measures the amount of progesterone present in blood serum or milk 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 determine the results of Minitube's ELISA test within 35 minutes. It is used with the ELISA test kit.

Application:

- Verify if cow is in or near heat
- Evaluate signs of false heat or silent heat
- Determine pregnancy status
- General monitoring of cow cycle, e.g. success of synchronisation programs
- Evaluation of post partum ovarian status and detection of pathological signs (e.g. ovarian cysts and persisting corpus luteum)

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

- Very little material is needed (0.02 ml of blood serum or milk)
- Fast and accurate results in just over half an hour for immediate evaluation of the cow
- Easy handling and maintenance
- Accurate reading as absolute progesterone concentration is shown in ng/ml (not only relative readings of 'high' or 'low' progesterone)

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 24 to 60 serum samples:

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

Test kit

for measuring Progesterone in Bovine **milk** REF. : [21900/1320](#)

for measuring Progesterone in Bovine **serum** REF. : [21900/1310](#)



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.: 21900/1320 or 21900/1310)
- **Warming unit** (Ref.: 21900/0100)
- **Pipette and tips** (Ref.: 12427/3120 & 12427/0255)



Interpreting the results of the MiniReader Progesterone test

Low Progesterone level (below 4 ng/ml):

Low Progesterone levels occur for only two possible reasons: either the cow is not cycling (e.g. after calving), or the cow is in heat/estrus. The likelihood of an insemination being successful is highest during estrus.

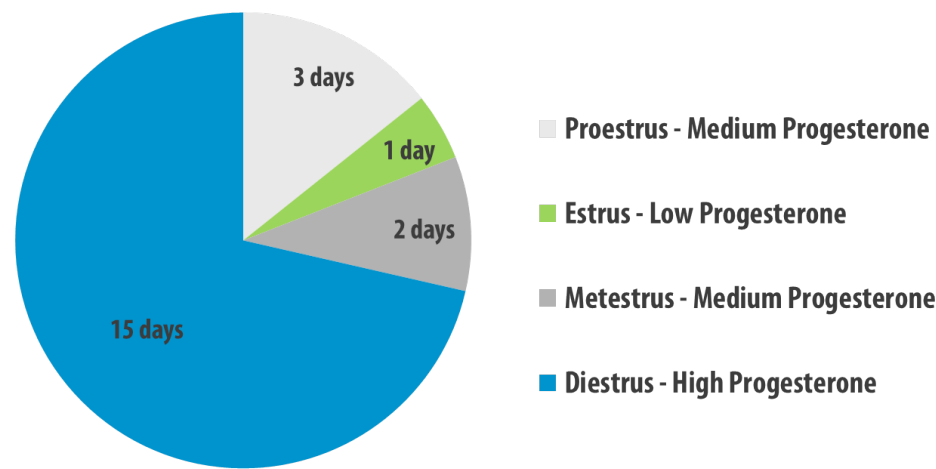
Medium range Progesterone level (between 4 and 8 ng/ml):

Progesterone is produced by an active corpus luteum. The corpus luteum may be growing after heat/estrus (metestrus), whether the cow is pregnant or not. It can also be in decline before estrus (proestrus).

High Progesterone level (above 8 ng/ml):

High Progesterone levels can be detected in pregnant cows or during the mid-cycle (diestrus) of non-pregnant cows. If during this time heat symptoms are observed, it is likely to be a 'false heat'. Either way, insemination during this time would very likely be unsuccessful.

Progesterone values [ng/ml]	Interpretation	Action
Low: 0 – 4	<ul style="list-style-type: none">cow is not cyclingcow is not pregnantestrus/heat/ovulation is nearif no heat symptoms are observed: possible silent heat	<ul style="list-style-type: none">inseminate if cycling or recheck within 24 hours
Medium: 4 – 8	<ul style="list-style-type: none">possible pregnancyluteal phasefalse estrus signs may occur	<ul style="list-style-type: none">if heat signs are strong, inseminate but re-check with MiniReader Progesterone test over the next 3 dayscheck possible pregnancy
High: > 8	<ul style="list-style-type: none">pregnancyluteal phasefalse estrus signs	<ul style="list-style-type: none">do not inseminatecheck possible pregnancy



The transition of the Progesterone levels from low to high and vice versa fluctuate. Usually a single analysis will not allow a clear interpretation. The animals must be observed and records of the last estrus, calving date, etc. must be evaluated. Often, additional Progesterone analyses and further examinations must be undertaken to provide an accurate interpretation.

