

Fast + Simple  
Focused on Veterinary Diagnostics

## FASTest® LH ad us. vet.

### LH determination

- castration control of found animals
- optimising the breeding success

Fast test for the qualitative detection of luteinising hormone (LH) in serum of the dog and cat

### Fertility status

→ castrated or uncastrated

### Detection of the LH peak

for ovulation prediction

### Enhancement of conception rate

Timing of

- Mating
- Artificial insemination

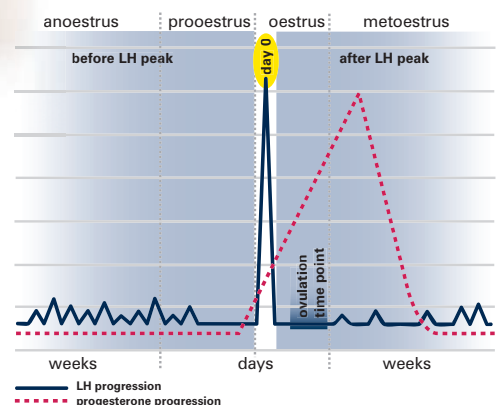
### Prognosis of day of whelping

### Ovarian status

→ estrous cycle course



- Simple test procedure with serum
- Fast test interpretation after 20 minutes
- Reliable clinical diagnostics
- High sensitivity and specificity
- Storage at room temperature (15-25° C)
- Long shelf life
- Compact test box with 2, 5 or 25 tests



# FASTest<sup>®</sup> LH ad us. vet.

The luteinising hormone (LH) is a peptide hormone belonging to the sex hormones. It has an influence in female (facilitation and initiation of ovulation) as well as in male animals (facilitation of sperm maturation). The on-site determination of LH is suitable for following **indications in female animals:**

**Fertility status:**  
castrated – uncastrated

	1 <sup>st</sup> LH test	test repetition	2 <sup>nd</sup> LH test	interpretation
♀	positive	after 24 h	positive	castrated
	negative*	optional	negative	uncastrated
♀	positive	after 2 h	positive	castrated
	negative*	optional	negative	uncastrated

\* due to the high sensitivity, a single negative test is highly probable for an uncastrated cat or dog

**FASTest<sup>®</sup> LH** can differ between fertile/uncastrated (LH concentrations < 1 ng/ml, **FASTest<sup>®</sup> LH** negative) and infertile/castrated (LH concentration > 1 ng/ml, **FASTest<sup>®</sup> LH** positive) female cats and dogs and therefore is completely suitable for evaluation of the sex of unknown found animals or for the control of a completed castration.

### Ovulation time point in bitches:

As an optimal starting time point for **FASTest<sup>®</sup> LH** testing day 4-5 of the prooestrus (vaginal cytology: 50% cornification, progesterone ≥ 1,5 ng/ml) is recommended. The first positive **FASTest<sup>®</sup> LH** (LH > 1 ng/ml) after daily measurements in the interval of 12, maximum 24 hours, marks the LH peak and thereby day zero of the cycle. Because ovulation usually comes up 2 days after LH peak, the ovulation time (duration Ø 12-24 hours, progesterone amount ca. 4-10 ng/ml) can be exactly timed. Most important for breeders, the best date for mating (fertile period) normally follows 2-3 days later (progesterone > 10 ng/ml).

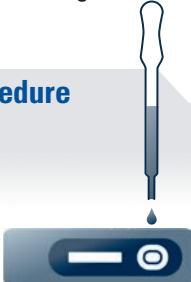
	before LH peak (prooestrus)	LH peak (oestrus)	after LH peak (metoestrus)
<b>LH test</b>	variably negative - positive if positive, test repetition after 2 h → negative	positive test repetition after 24 h → positive	negative test repetition after 2 h → negative
<b>LH value ng/ml</b>	pulsatile LH emission fluctuates between < 1 and > 1	praeovulatory LH ↑ > 1	LH basal values < 1
<b>progesterone value ng/ml</b>	basal value (early prooestrus): < 0,5 late prooestrus: ↑ to ca. 1	↑ increase > 2-4	ovulation (early metoestrus): 4-10 after ovulation (late metoestrus): > 10

### Planning whelping date in bitches:

Determining LH peak, the date of birth can be predicted precisely on +/- one day by addition of 65 days of average duration of pregnancy. This enables the veterinarian and the breeder to prepare all necessary precautions for an easy and uncomplicated birth.


Therefore, **FASTest<sup>®</sup> LH** is qualified a reliable on-site screening test in cats and dogs **for differentiation between fertile/uncastrated** (intact ovaries) **and infertile/castrated** (ovariectomy or hormonally castrated animals, respectively) as well as in the bitch for **optimal determination of ovulation time/mating time/artificial inseminating time and for determination of expected date of whelping.**

#### Test procedure




**No buffer addition**


#### Test interpretation



**POSITIVE:** LH > 1 ng/ml



**NEGATIVE:** LH ≤ 1 ng/ml



Evaluation by comparison of colour intensities of test and control lines

Based on the LH peak (ovulation point), **FASTest<sup>®</sup> RELAXIN** is perfectly suitable as a follow-up test for a reliable detection (from day 24 post ovulation on) or reliable exclusion (from day 26 post ovulation on) of pregnancy.

Distribution:

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