

# Canine/Feline AMH ELISA

Enzyme-Linked Immunoassay Kit



## Introduction:

In veterinary practice the presence or absence of functional gonadal tissue in dogs or cats is a recurrent challenge. In particular when the reproductive history is not known, it may be difficult to determine whether a female animal has been spayed. In female dogs or cats the presence of remaining functional ovarian remnant tissue after spaying is relevant when a presumably spayed animal is presented with clinical signs of gonadal hormone activity. In addition, laparoscopic surgery performed at a young age renders the visibility of surgical scar much more difficult. Serum AMH measurement can thus be used as a diagnostic tool in the determination of functional gonadal status in dogs and cats.

## ANSH LABS ADVANTAGES

### Accurate

Our kit uses specific and well-characterized antibodies with canine/feline AMH antigen as calibrators. The kit is also specifically optimized to minimize the false-positive results that may be generated due to canine anti-mouse antibodies present in serum. This generates accurate results as compared to other commercial kits that are modified human AMH kits.

### Specific

The Ansh Labs Canine/Feline AMH ELISA assay has a 93.9% sensitivity and a 93.8% specificity in canines for determining spay and neuter status. Remnant ovarian tissue was found in all suspected feline ORS cases with positive AMH values (UC Davis).

### Reliable

Highly published and well validated by the leading companion animal laboratories in the United States and in Europe.

Small sample size of 25 µL; no cold-chain shipping required.

Reportable range is 0.015 to 75 ng/mL

Dilutes linearly for high reading samples; sample diluent provided.

Sensitivity of 0.015 ng/mL

Able to quantitatively differentiate intact from spayed and neutered subjects

Multiple assay runs possible

Breakable wells on strips allow for multiple runs until sample volume is sufficient for a full plate. Can also combine feline and canine samples on a single plate.

Long Shelf-life

24 months from the date of manufacture.

## Precision

Sample	Mean Conc.	Within Run		Between Run		Total	
	(ng/mL)	SD	%CV	SD	%CV	SD	%CV
Control I	0.8	0.04	4.9%	0.03	4.2%	0.05	6.4%
Control II	2.4	0.07	2.8%	0.07	2.9%	0.10	4.0%
Sample 1	3.2	0.08	2.7%	0.06	1.9%	0.10	3.3%
Sample 2	8.2	0.43	5.2%	0.00	0.0%	0.43	5.2%

## Expected Values

	N	Mean Age	Mean AMH (ng/mL)	Range (ng/mL)
Intact Males	32	6.7	8.25	0.2 - 73.4
Castrated Males	29	7.2	0.15	<0.15
Intact Males	30	3.5	1.22	0.2 - 5.0
Spayed Females	30	10.3	0.15	<0.15

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## Product Listing

AMH is a useful tool to use with male and female dogs and cats for:

- Spay status
- Reproductive potential
- Cryptorchidism
- Sertoli Cell Tumors
- Ovarian Remnant Syndrome
- Granulosa Cell Tumors
- Infertility investigations

## ELISA 96 Wells

Method	Quantitative 3-step sandwich type immunoassay
Incubation Time	Total 2.5 hour incubation at room temperature
Approximate Dynamic Range	0.3-11.9 ng/mL
Controls	1 positive, 1 negative
Sensitivity	0.015 ng/mL
Sample Size / Type	25 µL Serum
Shelf-life	24 months
Catalog Number	AL-116

## References and Citations

### Feline Testing References:

Feline reproductive function tests. Anti-Müllerian Hormone (AMH) Test for Ovarian Remnant Syndrome, Cryptorchidism and Determination of Spayed/Castrated vs. Intact. Cornell University College of Veterinary Medicine. (2022, July 18). Retrieved March 14, 2023, from <https://www.vet.cornell.edu/animal-health-diagnostic-center/testing/protocols/feline-reproductive>

Anti-Müllerian Hormone Testing: Feline and Canine. UC Davis Veterinary Medicine. (2023, Jan 24). Retrieved March 14, 2023, from <https://www.vetmed.ucdavis.edu/labs/endo-lab/anti-mullerian-hormone-testing>

### Citations and Recommended Readings:

Johnson, A. K., Hollinshead, F. K., Berger, T., Cotterman, R. F., Caruso, C. J., & Conley, A. J. (2023). Anti-Müllerian hormone and inhibin-B concentrations vary cyclically in nonovulating queens within reference ranges established for determining gonadal status in cats. *Journal of the American Veterinary Medical Association* (published online ahead of print 2023). Retrieved Oct 17, 2023, from <https://doi.org/10.2460/javma.23.06.0320>

Holst BS. Diagnostic possibilities from a serum sample—Clinical value of new methods within small animal reproduction, with focus on anti-Müllerian hormone. *Reprod Domest Anim*. 2017 Apr;52 Suppl 2:303-309. doi: 10.1111/rda.12856. Epub 2016 Oct 18. PMID: 27758004.

Walter B. Anti-Müllerian hormone in dogs and cats reproduction. *Reprod Domest Anim*. 2020 Jul;55 Suppl 2:26-31. doi: 10.1111/rda.13603. Epub 2020 Feb 7. PMID: 32031297.

Chotimanukul S, Goericke-Pesch S, Suwimonteerabutr J, Singlor J, Sangkrachang E, Tummaruk P, Ponglowhapan S. Serum Anti-Müllerian Hormone Levels and Estrous Monitoring of GnRH Agonist Deslorelin-Induced Estrus in Bitches: A Pilot Study. *Animals* (Basel). 2023 Jan 12;13(2):258. doi: 10.3390/ani13020258. PMID: 36670799; PMCID: PMC9855037.

Themmen APN, Kalra B, Visser JA, Kumar A, Savjani G, Gier J, Jacques S. The use of anti-Müllerian hormone as diagnostic for gonadectomy status in dogs. *Theriogenology* 86 (2016) 1467–1474.

Ganz S, Wehrend A. Uptake of exogenous estrogen as a differential diagnosis of ovarian-remnant-syndrome in a bitch: a case report. *BMC Vet Res*. 2021 Jun 25;17(1):225. doi: 10.1186/s12917-021-02923-9. PMID: 34172052; PMCID: PMC8235845.

Yilmaz O, Toydemir T, Kirsan I, Ucmak Z, Karacam E. Anti-Müllerian hormone as a diagnostic tool for ovarian remnant syndrome in bitches. *Vet Res Commun*. First published online June 24, 2015.

### Reproductive Function

Activin A [CE]  
Activin B  
Activin AB  
AFP  
AMH [CE]  
AMH, Dried Blood Spot [CE]  
AMH (PCOCheck™) [CE]  
picoAMH (MenoCheck®) [FDA, CE]  
BMP-15  
Estrilol [FDA, CE]  
Follistatin  
Follistatin Like-3 (FSTL-3)  
FSH [FDA]  
FSH, Dried Blood Spot  
GDF-9  
GDF-9/BMP-15 Complex  
GDF-15 (Total)  
GDF-15 (H-Specific)  
Inhibin, Total  
Inhibin A [FDA, CE]  
picoInhibin A  
Inhibin A (OMQCheck™)  
Inhibin B [CE]  
Inhibin B, Ultra-Sensitive [CE]  
LH [FDA]  
LH, Dried Blood Spot  
PAPP-A2 [CE]  
picoPAPP-A [CE]  
PLGF [CE]  
Prolactin [FDA, CE]  
Prolactin, Dried Blood Spot [CE]  
Testosterone

### Specialty Controls

AnshCheck AMH Tri-Level Controls [FDA, CE]  
AnshCheck Inhibin B Tri-Level Controls  
AnshCheck Maternal Screening Bi-Level Controls [FDA, CE]

### Metabolism

C-Peptide of Insulin  
Glicentin  
GLP-1  
GLP-2  
Glucagon [FDA, CE]  
Major Proglucagon Fragment (MPGF)  
Oxyntomodulin  
Proglucagon

### Growth Factors

IGF-I, Free  
IGF-I, Total [FDA, CE]  
IGF-II  
IGFBP-2  
IGFBP-3, Intact  
IGFBP-3, Total  
IGFBP-4, Intact  
IGFBP-4, Total  
IGFBP-5  
picolL-6  
Stanniocalcin 2

### Species Specific Assays

Activin B - Mouse  
AMH - Bovine, Canine, Equine, Mouse, Ovine, Porcine, Rat  
IGF-I, Free - Mouse, Rat  
IGF-I, Total - Mouse, Rat  
Inhibin A - Canine, Equine, Rodent  
Inhibin B - Canine, Equine, Rodent  
Oxyntomodulin - Mouse, Rat  
PAPP-A - Mouse

### Neuronal Disorders

MBP

\*\*Unless stated otherwise, products are for research use only.

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