

Dried Blood Spot AMH

Enzyme-Linked Immunoassay Kit



Introduction: AMH has been reported to be strongly associated with age, antral follicle counts (AFC), FSH, and has emerged as a clinically useful biomarker of ovarian reserve. Recently, there have been concerns related to AMH stability in serum/plasma and complement interferences affecting the end result. This has generated numerous debates and publications related to reproducibility of AMH measurements and impact of pre-analytical sample handling.

Dried blood spot specimens stability makes it a practical alternative to venous blood. It opens new possibilities in AMH testing, such as comparison of historical to current patient results; simplified blood sampling for patients in remote locations or for those who are homebound. Instead of traveling to a clinic to get blood drawn, a blood spot sample can be taken at a convenient site and mailed to a laboratory. This technology will be especially useful for monitoring ovarian function of physically challenged cancer patients undergoing chemotherapy.

ANSH LABS ADVANTAGES

Accurate

Each kit includes a calibration card showing the concentrations for 2 spots, 1 spot and serum equivalent.

Specific

Recombinant and native AMH antigens were run as unknowns in the assay and the % cross-reactivity was calculated. This monoclonal antibody pair used in the assay is specific for human AMH and does not detect rat, mouse, porcine, equine, bovine, canine, and bovine AMH.

Reliable

Reproducibility of the DBS AMH ELISA assay was determined in a study using two kit controls and three serum pools. The study included a total of 40 assays, two replicates of each per assay (n=80). Representative data were calculated based on NCCLS EP5-A guidelines and are presented in the following table.

Sample	Mean Conc.	Within Run		Between Run		Total	
	(pg/mL)	SD	%CV	SD	%CV	SD	%CV
Control I	64.1	1.8	2.9%	2.0	3.2%	2.7	4.3%
Control II	186.4	6.5	3.5%	5.8	3.1%	8.7	4.7%
QC1	22.6	0.8	3.7%	1.0	4.5%	1.3	5.8%
QC2	86.5	1.9	2.2%	1.9	2.2%	2.7	3.1%
QC3	373.2	7.7	2.1%	14.2	2.8%	16.2	4.3%

Unique mAbs developed against specific linear epitopes on the associated dimers of AMH

Specificity and consistency of AMH detection.

Specific to human AMH (associated form)

Detects the full length and enhanced biologically active associated forms of human AMH.

Standardized recombinant human AMH calibrators

Ensure accuracy and reproducibility assay-to-assay and lot-to-lot

Analytical measurable range of 4.4-989.8 pg/mL

Wide dynamic range reduces repeat testing of samples.

Sensitive to 0.0125 ng/mL using two spots

Improved detection rate in research studies of compromised gonadal function.

Efficient

DBS samples and serum samples can be run on the same plate at the same time.

Dried Blood Spot AMH

Product Listing

Advantages to Dried Blood Spot sampling include:

- Minimally invasive technique and can be self collected by finger prick.
- Dried blood inactivates pathogens and lowers the biohazard risk.
- No centrifugation required.
- Small size and can be stacked and shipped by regular mail.
- Stable at ambient temperature. Limited refrigerator space.
- Few drops (30 µL) of blood. Easy to split spots between sites. Ideal method for lab animals.

ELISA 96 Wells

Method	Quantitative 3-step sandwich type immunoassay
Incubation Time	Total 4.5 hour incubation at room temperature
Approximate Dynamic Range	7 points, 4.4-989.8 pg/mL
Sensitivity	0.0125 ng/mL
Sample Size / Type	10µL to 50 µL Diluted / Serum
Shelf-life	24 months
Catalog Number	AL-129 [CE]

Related Assays

Dried Blood Spot related:

LH, Dried Blood Spot	96-Well ELISA	AL-190 [RUO]
FSH, Dried Blood Spot	96-Well ELISA	AL-187 [RUO]
Prolactin, Dried Blood Spot	96-Well ELISA	AL-1016 [CE]

DBS kits in development: Progesterone, Testosterone, TSH

AMH related:

AMH, Ultra Sensitive	96-Well ELISA	AL-105 [CE]
picoAMH (RUO)	96-Well ELISA	AL-124-r [RUO]
MenoCheck picoAMH	96-Well ELISA	AL-124 [FDA,CE]
PCOCheck AMH	96-Well ELISA	AL-196 [CE]

*Unless otherwise stated here, in our catalog, or other product documentation, these kits are intended for research use only and not for in vitro diagnostic purposes or therapeutic uses.

POS.129.1224.USINTL

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
Estriol [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
GIP, Intact
GIP, Total
Glucagon
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
IGFBP-4: 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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ISO 13485:2016

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