

## Bovine AMH Testing Whitepaper

Table 1. Bovine AMH Assay References

Reference	method	Pub year	Title
(19)	Necklaws	1986	Detection of Mullerian inhibiting substance in biological samples by a solid phase sandwich radioimmunoassay
(18)	DSL/Beckman	2008	Intrafollicular Steroids and Anti-Mullerian Hormone During Normal and Cystic Ovarian Follicular Development in the Cow
(25)	DSL/Beckman	2008	Antral Follicle Count Reliably Predicts Number of Morphologically Healthy Oocytes and Follicles in Ovaries of Young Adult Cattle
(21)	DSL/Beckman	2009	Anti-Mullerian Hormone Is an Endocrine Marker of Ovarian Gonadotropin-Responsive Follicles and Can Help to Predict Superovulatory Responses in the Cow
(12)		2010	Anti-Mullerian hormone: a predictive marker of embryo production in cattle
(11)	DSL/Beckman	2011	Regulation of Anti-Mullerian Hormone Production in the Cow: A Multiscale Study at Endocrine, Ovarian, Follicular, and Granulosa Cell Levels
(16)	Ansh	2012	Anti-Mullerian Hormone Profiles as a Novel Biomarker to Diagnose Granulosa-theca Cell Tumors in Cattle
(9)	Active MIS/AMH ELISA (Beckman French)	2012	Determination of anti-Mullerian hormone concentrations in blood as a tool to select Holstein donor cows for embryo production: from the laboratory to the farm
(26)	Beckman Gen II	2012	Prediction of Superovulatory Response in Japanese Black Cattle Using Ultrasound, Plasma Anti-Mullerian Hormone Concentrations and Polymorphism in the Ionotropic Glutamate Receptor AMPA1/GRIA1
(27)	Immunotech	2013	The Anti-Mullerian Hormone Profile is Linked with the In Vitro Embryo Production Capacity and Embryo Viability after Transfer but Cannot Predict Pregnancy Outcome
(4)	Beckman Gen II	2013	Plasma anti-Mullerian hormone as a biomarker for bovine granulosa-theca cell tumors: Comparison with immunoreactive inhibin and ovarian steroid concentrations
(28)	Ansh	2014	Plasma Antimullerian Hormone as a Predictor of Ovarian Antral Follicular Population in Bos indicus (Nelore) and Bos taurus (Holstein) Heifers
(29)	Ansh	2014	Plasma anti-mullerian hormone: an endocrine marker for in-vitro embryo production from Bos taurus and Bos indicus donors
(8)	Ansh	2014	Plasma anti-Mullerian hormone in adult dairy cows and associations with fertility
(14)	Ansh	2015	Relationship between follicle population, AMH concentration and fertility in cattle
(30)	DSL/Beckman	2015	Anti-Mullerian hormone levels in plasma of Holstein-Friesian heifers as a predictive parameter for ovum pick-up and embryo production outcomes
(7)	Ansh	2015	Relationship between circulating anti-Mullerian hormone (AMH) and superovulatory response of high-producing dairy cows
(20)	Ansh	2015	The BOC ELISA, a ruminant-specific AMH immunoassay, improves the determination of plasma AMH concentration and its correlation with embryo production in cattle
(31)	Beckman Gen II	2015	Concentration of anti-Mullerian hormone in dairy heifers is positively associated with productive herd life
(32)	Active MIS/AMH ELISA (Beckman)	2015	Dietary propylene glycol and in vitro embryo production after ovum pick-up in heifers with different anti-Mullerian hormone profiles (Immunotech)
(5)	Beckman Gen II	2016	Changes in peripheral anti-Mullerian hormone concentration and their relationship with testicular structure in beef bull calves
(33)	Ansh	2016	Systemic and local anti-Mullerian hormone reflects differences in the reproduction potential of Zebu and European type cattle
(22)	Ansh	2017	Repeatability of antral follicle counts and anti-Mullerian hormone and their associations determined at an unknown stage of follicular growth and an expected day of follicular wave emergence in dairy cows
(6)	Laboklin	2017	Anti-Mullerian hormone, inhibin A, gonadotropins, and gonadotropin receptors in bull calves after partial scrotal resection, orchidectomy, and Burdizzo castration (unknown if still available)
(34)	Ansh	2017	Fetal sex alters maternal anti-Mullerian hormone during pregnancy in cattle
(35)	Sincere Biotech Co., Ltd, China	2017	Anti-Mullerian hormone and antral follicular count in early and delayed pubertal Murrah buffalo heifers (Available)
(36)	Beckman Gen II	2017	Long-term changes in plasma anti-Mullerian hormone concentration and the relationship with superovulatory response in Japanese Black cattle

<b>(37)</b>	MOFA Global	2017	Ovulation rate, antral follicle count, and circulating anti-Mullerian hormone in Trio allele carriers, a novel high fecundity bovine genotype (purchased by minitube) (unknown if still available)
<b>(10)</b>	Cloud-Clone Corp	2017	Relationship among circulating anti-Mullerian hormone, insulin like growth factor 1, cadmium and superovulatory response in dairy cows (Available)
<b>(38)</b>	MiniTube of America	2018	Genomic heritability and genome-wide association analysis of anti-Mullerian hormone in Holstein dairy heifers (unknown if still available)
<b>(23)</b>	Ansh	2018	Anti-Mullerian Hormone and Follicle Counts as Predictors of Superovulatory Response and Embryo Production in Beef Cattle
<b>(39)</b>	Ansh	2018	Anti-Mullerian Hormone (AMH), antral follicle count (AFC), external morphometrics and fertility in Tabapua cows
<b>(40)</b>	Ansh	2018	The relationship between serum anti-Mullerian hormone concentrations and fertility, and genome-wide associations for anti-Mullerian hormone in Holstein cows
<b>(41)</b>	Ansh	2018	Nulliparous and primiparous cows produce less fertile female offspring with lesser concentration of anti-Mullerian hormone (AMH) as compared with multiparous cows
<b>(42)</b>	Ansh	2018	The relationship between circulating concentration of AMH and LH content in the follicle stimulating hormone (FSH) preparations on follicular growth and ovulatory response to superovulation in water buffaloes
<b>(43)</b>	Ansh	2019	Inferior fertility and higher concentrations of anti-Mullerian hormone in dairy cows with longer anogenital distance
<b>(44)</b>	N/A	2019	The relationship between anogenital distance and fertility, and genome-wide associations for anogenital distance in Irish Holstein-Friesian cows