Bovine Anti-Müllerian Hormone (AMH) is a protein hormone produced by granulosa cells in ovarian follicles. AMH can be measured any time in the estrous cycle and is a direct measure of ovarian reserve and has a high correlation to Antral Follicle Count.

In Bovine or other production animals, measuring AMH will:
- Allow the selection of the best heifers that will produce the highest number of transferable embryos
- Identify high producing embryo transfer donors before a superovulation regimen
- Help monitor the fertility stayability potential of cows
- Identify cows with higher first-conception service rates and fewer service requirements

**Ansh Labs Advantage**
- the only AMH assay designed specifically for use in cattle
- High Sensitivity to ~11 pg/mL
- able to distinguish small differences in fertility especially in breeds that have inherently low AMH levels
- High Precision
- ability to know that the AMH value is correct for each individual heifer/cow
- Analytical measurable range of 13.5—2240 pg/mL
- wide dynamic range reduces repeat testing of samples
- Highly published and validated assay
- provides confidence in results
- Long shelf-life
- 24 months from the date of manufacture; minimizing assay lot changes for long term studies

**Accurate**

Multiple dilutions of two Bovine plasma samples containing various AMH levels were performed in Calibrator A/sample diluent. The samples were assayed and the % recovery was calculated. The % recovery is represented in the following table.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Dilution Factor</th>
<th>Expected Conc. (pg/mL)</th>
<th>Observed Conc. (pg/mL)</th>
<th>% Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Neat</td>
<td>7468</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>1</td>
<td>1:2</td>
<td>3734</td>
<td>3731</td>
<td>100%</td>
</tr>
<tr>
<td>1</td>
<td>1:4</td>
<td>1867</td>
<td>1973</td>
<td>106%</td>
</tr>
<tr>
<td>1</td>
<td>1:8</td>
<td>934</td>
<td>980</td>
<td>105%</td>
</tr>
<tr>
<td>1</td>
<td>1:16</td>
<td>467</td>
<td>511</td>
<td>109%</td>
</tr>
<tr>
<td>2</td>
<td>Neat</td>
<td>5010</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>2</td>
<td>1:2</td>
<td>2505</td>
<td>2450</td>
<td>98%</td>
</tr>
<tr>
<td>2</td>
<td>1:4</td>
<td>1253</td>
<td>1261</td>
<td>101%</td>
</tr>
<tr>
<td>2</td>
<td>1:8</td>
<td>626</td>
<td>665</td>
<td>106%</td>
</tr>
<tr>
<td>2</td>
<td>1:16</td>
<td>313</td>
<td>334</td>
<td>107%</td>
</tr>
</tbody>
</table>

**Specific**

AMH levels were measured in different breeds to establish breed-specific AMH ranges. The highly sensitivity Ansh Labs’ Bovine AMH assay can be used to establish breed-specific AMH cut-off values for donor and embryo recipient selection.

**Reliable**

AMH was measured in plasma of dairy cows on days 7 and 15 of estrous cycle.
Bovine Anti-Müllerian Hormone

For Bovine, this assay has been validated in the following breeds:

- Bos taurus (fullblood)
  - Jersey
  - Hereford
  - Holstein
  - Angus
  - Red Angus
  - Black Angus
- Bos indicus (fullblood)
  - Brahman
  - Gyr
  - Nelore
- Bubalus bubalis (fullblood)
  - Murrah
- Mixed (composite)
  - Beefmaster
  - Brangus
  - Holstein-Jersey
  - Brford
  - Bonsmara
  - Wagyu

ELISA 96 Wells

Method: Quantitative three-step sandwich type immunoassay

Incubation Time: Total 3.5 hour incubation at room temperature

Approximate Dynamic Range: 6 points, 13.5 - 2240 pg/mL

Limit of Detection: 11 pg/mL

Sample Size / Type: 50 μL / Serum, EDTA Plasma

Shelf-life: 24 months

Ordering Information

Bovine AMH  96-Well ELISA AL-114

Additionally, we have AMH assays specific to Equine, Ovine, Caprine, Canine, Feline, Rat and Mouse, and non-human Primate.

Call us today or visit AnshLabs.com to see what’s new in our lab.

Ansh Labs is ISO 13485 and ISO 9001 certified for design, development, manufacturing, services and distribution of reagents/immunoassay kits for research and in vitro diagnostic applications.

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