Instruction for samples:

PLEASE SEND SERUM ONLY, no whole blood or red cells. The use of serum separator tubes is not recommended; they may degrade the analytes, particularly progesterone, and may invalidate results.

Volume Required:
Testosterone: 2 mL serum
AMH (equine), Estrone Sulfate, Progesterone or Inhibin: 1 mL serum each. Canine inhibin: 1 ml fasted overnight.
AMH Canine/Feline Spaychek: 200 µL serum, fasted, 30 days post-surgery, send overnight on ice, immediately after draw. Send 0.5 ml for Progesterone/AMH and 2 ml for testosterone/AMH.
Cryptorchid Panel: 2 mL serum
Pregnancy Panel: 2 mL serum
Granulosa Cell Tumor Panel: 3 mL serum

Shipping Instructions:
Overnight on an icepack is highly recommended for the Spaychek AMH test, equine AMH test, or inhibin assay. Progesterone, estrone sulfate and testosterone are all stable and can be shipped ground, if not in a hurry for results. Fed Ex or UPS will deliver directly to us, while the US Postal Service will go through the University Mail Division and may take up to one week or more, until received in the lab. Please do not send us samples to be received on the weekends or holidays. No one is available to accept shipments on those days. Please complete the submission form and include it with your shipment.

SHIP TO:
UC Davis ENDOCRINOLOGY LABORATORY
1089 Veterinary Medicine Dr.
Bldg: VM3B room 3230
DAVIS, CA 95616-5270

Frequency of Testing:
• All tests are run on a weekly basis. See our website for holiday exceptions.
• Samples must be received in the lab by Wednesday morning of each week to receive results for testosterone, inhibin, progesterone, and estrone sulfate that same week.
• Results are reported on Thursday (progesterone and estrone sulfate), Friday (testosterone and inhibin), and Monday (AMH-equine), and Tuesday (Spaychek feline/canine AMH).
• Credit card payment is required before the assays can be run. Alternatives, if approved, include billing or credit card number held on file.
• Cost per assay includes interpretation, phone/fax charge, and consultation with a veterinarian as required or requested.
LABORATORY REFERENCE RANGES

PROGESTERONE:
Equine Female:
Absence of active luteal tissue: 0.1 to 0.5 ng/mL
Borderline for the presence of luteal tissue: 0.5 to 1.0 ng/mL
Presence of luteal tissue: > 1.0 ng/mL
Adequate for the maintenance of early equine pregnancy: > 4.0 ng/mL
Indirect determination of pregnancy for camelids > 2.0 ng/mL.

ESTRONE SULFATE:
Equine Female:
Standard size mares: non pregnant or pregnant (first 45 days of pregnancy)
0.1-6.0 ng/mL
Pregnancy of 45 days or greater > 10.0 ng/mL
Miniature mares: non pregnant or pregnant (first 80 days of pregnancy)
0.1-60.0 ng/mL
Pregnancy of 80 days or greater > 60.0 ng/mL
Males: Cryptorchidism (not recommended, suggest use testosterone serum levels)
Estrone Sulfate laboratory reference ranges for equine: Gelding < 0.1 ng/mL;
Cryptorchid 35-60 ng/mL; Stallion 140 – 200 ng/mL

TESTOSTERONE:
Male: Cryptorchidism determination
From single serum sample:
Equine laboratory reference ranges: Gelding < 50 pg/mL;
Cryptorchid: 100-500 pg/mL;
Mature stallion: 800-2000 pg/mL;
Female: Granulosa cell tumor determination:
Non-pregnant mare: Normal 20 – 45 pg/ml;
Marginally elevated: 45-70 pg/ml;
Elevated: 70-100 pg/ml;
Indicative of tumor: >100 pg/ml.

hCG stimulation test Protocol:
Equine: Baseline blood sample followed by the administration of 2500 IU of hCG IM or IV. 2 hours post-stimulation draw a second blood sample.
Small animals: Baseline blood sample followed by the administration of 50 IU/Kg of hCG IM or IV. 2 hours post-stimulation draw a second blood sample.

INHIBIN: EQUINE ONLY
Mare: Normal ranges for a non-pregnant mare 0.1 – 0.7 ng/mL.
Mares with inhibin levels > 0.7 ng/mL consistent with granulosa cell tumor or late term pregnancy (usually greater than 7 months).
Stallion: Normal range 2.2 – 3.4 ng/mL

The lab will run canine inhibin, but does not have reference ranges. See more information about canine inhibin on our website.

AMH: EQUINE ONLY
Mare: Normal ranges for a non-pregnant mare 0.1 – 3.8 ng/mL
Borderline for a granulosa cell tumor 3.8 – 8.0 ng/mL
Levels consistent with granulosa cell tumor > 8.0 ng/mL
Cryptorchid levels > 0.15 ng/mL
UC Davis Clinical Endocrinology Laboratory
3230 VM3B, 1089 Veterinary Medicine Dr., Davis, CA 95616-5270
Phone: 530-752-0298  FAX: 530-752-6318
www.vetmed.ucdavis.edu/phr/labs/endolab
endolab@ucdavis.edu

<table>
<thead>
<tr>
<th>Test</th>
<th>Cost</th>
<th>Volume</th>
<th>Species</th>
<th>Details</th>
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<tbody>
<tr>
<td>Pregnancy Panel</td>
<td>(Prog / Estrone Sulfate)</td>
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<td>Cryptorchid Panel</td>
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<td>Testosterone / AMH</td>
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<tr>
<td>Equine GCT Panel</td>
<td>(Inhibin / Testo / Prog)</td>
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<tr>
<td>Progesterone</td>
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<tr>
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<td>Inhibin</td>
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<td>AMH</td>
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<td>AMH (Feline/Canine Spaychek)</td>
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<td>AMH (Equine)</td>
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</tr>
</tbody>
</table>

**Client Information** (PLEASE print clearly)

Clinic/Hospital Name: ________________________________
Address: ____________________________________________
City: __________________________  State: ________  Zip Code: ___________
Contact: Dr. ___________________________  Phone: ______________________

**Patient Information**

Owner: ___________________________  Animal name: ______________________
Animal/Reference #: _______________________  Species: __________  □ Mini-equine
Sex: □ Male   □ Female   □ Intact □ Castrated □ Spayed  Age: _______________
Date collected: ________________  Last breeding date: ________________

**History**:
____________________________________________________________________
____________________________________________________________________

**Receive Results**:

□ Fax: ___________________________  □ Email: ___________________________

**Payment Information**

Signature: _________________________  Date: ________________
□ MasterCard □ Visa □ American Express

Credit Card # ____________ - ________ - ________ - ________ Expiration Date: ________