

College of Veterinary Medicine
Clinical Pathology Laboratory

CLINICAL ENDOCRINOLOGY SUBMISSION

Laboratory Director:

Andrea Santos, DVM, PhD, DACVP

For Test Information or Results:

Phone # (765) 494-7563 Fax # (765) 494-8640

VETERINARIAN:

Name _____

Email _____

Clinic Name _____

Email _____

Address _____

City, State ZIP _____

Phone _____

Fax _____

Date Collected _____

OWNER:

Name _____

Chart # _____

Animal _____

Species _____

Breed _____

Sex _____

DOB _____

Clinical Signs/History:

Medications:

INSULIN (EDTA plasma)

- ___ Baseline
- ___ Post 60 min
- ___ Post 90 min
- ___ Post Other: _____

___ **Insulin & Glucose**
(EDTA Plasma & Serum/Hep Plasma)

___ Equine Progesterone (Serum)
Reason for Testing:
Breeding ___ Predicting Birth: ___

- ___ Phenobarbital (serum)
- ___ Endogenous ACTH* (EDTA Plasma)
- ___ Endogenous ACTH* Post TRH (EDTA Plasma)

General Instructions:

- Do not send whole or clotted blood for any test.
- Label all tubes with the owner's name, patient name, sample type, designated test and time of collection, if part of a specific function test.
- Send a minimum of 0.5 ml of serum or EDTA plasma (as appropriate) for each assay requested. For serum, allow clotting at room temperature, centrifuge as soon as possible, remove serum from cells to a plain tube and refrigerate until shipment. For EDTA plasma, centrifuge as soon as possible, remove plasma from cells to a plain tube (plain PLASTIC tube is required for Endogenous ACTH), and refrigerate or freeze. See below for Endogenous ACTH handling requirements.
- The use of Serum Separator Tubes is not recommended.
- Most samples should be shipped on frozen ice packs. Endogenous ACTH should be shipped on dry ice.
- The equine progesterone test should only be used for monitoring the first 100 days of pregnancy due to cross-reactivity with other progestins that are upregulated later in pregnancy.

Equine Endocrinology Information:

Equine Metabolic Syndrome:

- The oral sugar test (OST) is recommended
- Blood should be collected in EDTA (purple top) tubes
- Specify the time(s) of collection (60 or 90 min)
- Specify the dose of Karo syrup used (0.15 or 0.45 mL/kg)
- EDTA plasma samples should be stored in the refrigerator for up to 24 hours prior to testing. Do not freeze samples.

Pituitary Pars Intermedia Dysfunction:

- The TRH stimulation test is recommended (1 mg/horse, 0.05 mg/pony)
- Blood should be collected in refrigerated EDTA (purple top) tubes. See Endogenous ACTH test notes below.
- Specify the time(s) of collection (10 or 30 min)
- Samples should be kept at 4°C until analysis (within 12 hours)

Endogenous ACTH:

- Collect 3mL of whole blood into a plastic K2 EDTA tube, keep tube cool until centrifugation.
- Centrifuge within 30 minutes of collection
- Separate plasma into a plastic tube containing no additive
- Freeze plasma.
- Samples should be shipped frozen. Samples should be shipped on dry ice in an insulated container using crumpled paper or other material for insulation and protection of samples.

Delivery Address:

Purdue University, Veterinary Hospital
Clinical Pathology Laboratory
625 Harrison St. Lynn Hall – RM. G-351
West Lafayette, IN 47907-2026