Equine Haptoglobine handbook
Horses are an important part of many people’s lives and a big industry in many regions. We need them as much as they need us. That is why LifeAssays® AB has developed a unique patented rapid test for Equine Haptoglobin. With this revolutionary laboratory test the Veterinary practitioners have a valuable tool for early disease intervention and effective treatment follow-up, to help horses to live happier and healthier lives.

Dedicated to make every horse a healthy horse!
Near Patient Testing has been an increasing trend within human medicine the last years. Veterinary medicine is starting to embrace this as well.

The benefits of having a system that simplifies diagnosis, monitoring treatment and is specifically designed to do so right next to the patient in “real” time are huge.

For an efficient work-flow in an emergency setting, the test must have a short turn around time, optimally less than 15 minutes. Additionally, the test-format has to be easy-to-use so that non-laboratory personnel are able to perform the test.

Easy to use point-of-care testing
Acute Phase Proteins in Veterinary Practice

The immediate detection of an inflammatory response and the monitoring of its clinical course are primary challenges for veterinary medicine.

The search for early inflammation markers has therefore been an important focus in veterinary medical research. Special attention has been on the identification of biochemical parameters that have the sensitivity and specificity to both signal the presence and evaluate the intensity of an inflammatory response.

Acute Phase Proteins is a group of biological markers that have a direct response to an acute inflammation and a fast decrease in concentrations upon removal of inflammation.
LifeAssays® Equine Haptoglobin System

LifeAssays® Equine Haptoglobin test kit provides a point-of-care quantitative measurement of Equine Haptoglobin in serum, within 11 minutes. This two-site heterogeneous immunoassay uses magnetically labeled antibodies for detection.

The LifeAssays® Equine Haptoglobin test kit helps veterinary professionals to easily integrate haptoglobin measurements as a point-of-care diagnostic tool to diagnose and monitor disease progression as well as treatment efficiency on inflammations in horses.

Repeating a LifeAssays® Equine Haptoglobin test during and after treatment (ex antibiotics) will show if the selected treatment has been effective and reduced the inflammation or infection.
LifeAssays® Equine Haptoglobin system consists of a bench-top instrument (LifeAssays® Veterinary Reader), single-use reagent tests and a disposable algorithm chip. All reagent identification data, as well as, a self-executable algorithm is contained on the disposable algorithm chip providing better traceability and improved system control.

The chip is inserted into the LifeAssays® Veterinary Reader when a new reagent kit is opened and remains in the reader until the last reagent vial in the kit is disposed of. Thus, reagent/software upgrades are easily provided with each new reagent kit.

<table>
<thead>
<tr>
<th>Haptoglobin mg/dl</th>
<th>CV (%)</th>
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<tbody>
<tr>
<td>210</td>
<td>8</td>
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<tr>
<td>400</td>
<td>5</td>
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<table>
<thead>
<tr>
<th>Comparative system</th>
<th>Corr.factor</th>
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<tbody>
<tr>
<td>Peroxidase (Tridelta)</td>
<td>0.99</td>
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LifeAssays® Equine Haptoglobin System

**LifeAssays® Equine Haptoglobin Technical Data:**
- Serum Samples
- Short measurement time: 11 minutes
- Linear range: 40–600 mg/dl
- Measuring range increased by further dilution of sample
- Superior non optical system

**LifeAssays® Veterinary Reader Technical Data:**
- Easy-to-read display
- Bench-top instrument
- Disposable algorithm chip for improved system control
- Automatic measurement and result presentation
- Superior non optical system
Step 1. Insert the disposable algorithm chip provided with the LifeAssays® Equine Haptoglobin Kit. Turn on the LifeAssays® Veterinary Reader.

Step 2. Dispense, using the fixed-volume pipette provided, 50 µl sample (serum) into the dilution vial. Mix for a few seconds.

Step 3. Vortex the reagent vial within 10 sec after Vortexing is completed.

Step 4. Vortex the reagent vial for 30 sec.

Step 5. Place the reagent vial in the LifeAssays® Veterinary Reader. The results will be displayed automatically after 11 minutes.
Step 3. After a background reading of the vial collect a 3 μl of the diluted sample using a glass capillary and drop it into the reagent vial.

Step 6. Note the result and unload the reagent vial from the instrument. You can now start a new measurement by pressing the Enter button.
Be Sure. A simple blood test and you know if your horse is healthy. Check your horse before the race or use it as a valuable diagnostic tool.

www.lifeassays.com