

## **Product information for measurement of Haptoglobin**

*See test procedure on last page or in user manual*

### *Intended use*

The HAP25-200 contains an in vitro diagnostic reagent system intended for use on EVA1 systems for the quantitative immunological determination of haptoglobin in equine serum and plasma.

### *Test principle*

Immunoturbidimetric assay.

Polyclonal antibodies bind to haptoglobin epitopes. The antigen/antibody complexes produced by addition of samples containing haptoglobin lead to an increase in the turbidity of the test reactants. The change of absorbance with time is dependent of the concentration of haptoglobin epitopes in the sample.

### *Measuring range*

Approximately 0,2-5,5 g/L depending on the specific lot of the calibrator.

### *Linearity*

The assay is linear in the range of 0.2-5.5 g/L

### *Reference interval*

1,0-2,3 g/L. It is recommended to determine the reference interval locally.

Product	Cat. No	Qty (tests)	Specification
HAP25, HAP50, HAP200	200-001, 200-002, 200-003	25, 50, 200	Reaction buffer & polyclonal rabbit anti-human haptoglobin
Calibrator	210-001	1	Human serum protein calibrator

### *Buffer 1 (Reaction buffer)*

The reaction buffer is ready for use.

Stability: See expiry on the label.

When opened, stability is 28 days at 2-12°C.

### *Buffer 2 (Antibody)*

Stability of undiluted antibody: See expiry on the label.

Stability of prediluted antibody: 28 days at 2-8°C.

### *Specificity of antibody*

In an Ouchterlony test, precipitate is shown with equine serum.

### *Samples*

Equine serum, heparin-plasma or EDTA-plasma.

Stable for 7 days at 2-8°C.

Stable for 3 months at -20°C (if frozen only once).

Frozen samples should be thawed at 37°C and mixed well before analysis.

### *Calibrator*

Ready to use.

Stability: See expiry on the label.

*Calibration stability*

It is recommended to recalibrate every 28<sup>th</sup> day or when reagent lot change or quality control results fall outside range as established by the individual laboratory. However, the calibration stability should be validated on the individual instrument.

*Trouble shooting*

If performance is unacceptable, try to recalibrate. Check reagents and procedure. If the problem persists, please contact local distributor or Equinostic ApS – Holsteinsgade 38 stth – 2100 Copenhagen – Denmark – e-mail: info@equinostic.com.

**OPERATION**

**Sample handling tips**

- Note that the light beam shines from LEFT to RIGHT through the cuvette holder; ensure the cell is inserted in the correct alignment.
- The optical height is 15mm, and the minimum volume that can be used is approx. 700µl in a semi-micro cell and 200µl in a micro cell.
- Align the indicator line on test tubes with the arrow on the cell compartment area to ensure reproducible positioning of the cell. We recommend to change cell before each new measurement.
- Collect blood serum by normal means and perform the measurement while the sample is fresh. If the sample is to be stored for a long period of time, store it at -20°C or below.

**Precautions for use**

*Measurements procedure*

In order to obtain lowest possible uncertainty we recommend:

Related to point 2 and 5 in the measurement procedure.

- Use capillary tubes or pipettes dedicated for 2 µl or 10 µl.
- Before dispensing sample, wipe off the capillary tube or tip.

Related to point 6 in the measurement procedure.

- Shake the cuvette with a Vortex mixer or similar.

Related to point 7 in the measurement procedure.

- After hitting the cuvette make sure there is no bobbles – remove with tip.

## Instrument setup for Haptoglobin measurement

There is no preparation of reagents.

After switch on, calibration and pressing F2 to proceed the home page is shown offering the choice of:

Option on display or action	Press	Comment
Equinostic methods	F2	
Protein assay	F1	
Make a Haptoglobin measurement	F3	

### Measurement procedure

1. Dispense 200 µl buffer 1 into the cuvette and place it in the heated cuvette holder for 10 min.
2. Dispense 2 µl sample into cuvette.
3. Press **Run (F1)**.
4. At countdown a background measurement is performed automatically.
5. Add 10 µl buffer 2 to the cuvette and press **Test (F1)**.
6. Shake the cuvette for 15 sec (see countdown on screen).
7. Hit the cuvette gently to a hard surface to assure enough liquid in the measuring area.
8. Replace the cuvette in the cuvette holder of the EVA1.
9. Read out the result after 4 min.