

## **Product information for measurement of Fibrinogen**

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

### *Intended use*

The FIB25-200 contains an in vitro diagnostic reagent system intended for use on EVA1 systems for the quantitative immunological determination of fibrinogen in equine serum and plasma.

### *Test principle*

Immunturbimetric assay.

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

### *Measuring range*

Approximately 1,5-5,5 g/L depending on the specific lot of the calibrator. If values increases over 5,5 g/l, dilute sample in sample dilution buffer for highest precision. *For example* Dilute 5 times by adding 20µL sample to 80µL sample dilution buffer and shake vigorously. Follow the normal procedure and multiply Fibrinogen reading by 5 for result.

### *Reference interval*

2,0-4,5 g/L. It is recommended to determine the reference interval locally.

Product	Cat. No	Qty (tests)	Specification
FIB25, FIB50, FIB200	300-001, 300-002, 300-003	25, 50, 200	Dilution buffer, Reaction buffer & polyclonal rabbit anti-human fibrinogen
Calibrator	310-001	1	Human plasma protein calibrator

### *Dilution 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 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 plasma.

### *Samples*

Equine Citrate or Heparin-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 1 and 4 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 5 in the measurement procedure.

- Shake the cuvette with a Vortex mixer or similar.

## Instrument setup for Fibrinogen 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 Fibrinogen measurement	F2	

## Measurement procedure

1. Dispense 400  $\mu$ l buffer 1 + **2  $\mu$ l** sample into the cuvette. Shake the cuvette, preferable with a vortex mixer.
2. Place the cuvette in the heated cuvette holder for 10 min. Make sure the arrow on cuvette points towards the arrow on EVA1.
3. Press **Run (F1)**. At countdown a background measurement is performed automatically after 1 minute.
4. Then Add **10  $\mu$ l** buffer 2 to the cuvette and immediately press **Test (F1)**.
5. Shake the cuvette for 15 sec, preferable with a vortex mixer (see countdown on screen).
6. Replace the cuvette in the cuvette holder of the EVA1 – arrow against arrow.
7. Read out the result after 4 min.