ABSTRACT

Measuring device for determination of at least one parameter of a blood sample

The invention relates to a measuring device for determination of at least one parameter of a blood sample, comprising a flow-through measuring cell (1), in which is disposed at least one luminescence-optical sensor element (ST, SO, SG), which can be brought into contact with the blood sample, and at least one light source (4) for excitation of the luminescence-optical sensor element and at least one photodetector (6) for receiving the luminescence radiation emitted by the luminescence-optical sensor element, the light source (4) and the photodetector (6) being located on opposite sides (7) and (8) of the flow-through measuring cell (1). According to the invention the at least one luminescence-optical sensor element (ST, SO, SG) is placed on the excitation side (7) of the flow-through measuring cell (1), which faces the light source (4), and the light source (4) emits excitation radiation of wavelength less than 600 nm, for instance 425 nm, while the luminescence radiation of the luminscence-optical sensor elements (ST, SO, SG) lies in a wavelength range greater than 600 nm, thus exposing the excitation radiation to much stronger absorption by the blood sample than the luminescence radiation.

Fig. 1