

HemoCue[®] Hb 201+

**Accurate Hemoglobin
results anytime, anywhere.**





Fill the cuvette by placing the tip of the cuvette in the drop of blood ...



... place the filled cuvette in the cuvette holder of the analyser and close ...



... the result will be displayed within 15-60 seconds.



The unique, disposable microcuvette is the heart of the HemoCue system. The correct volume of blood is drawn into the cuvette by capillary action and the dried reagent is dissolved.

New look. Same excellent accuracy and precision.

Appreciated by users all over the world for simplicity, speed and small sample volume, HemoCue B-Hemoglobin is the long-standing choice and the original for lab-quality hemoglobin testing at point of care. The system uses a specially designed analyser with specially designed microcuvettes.

The new HemoCue Hb 201+ system offers the same important benefits as its predecessor. In addition, a smaller analyser and optimal cuvette package alternatives will give you more flexibility and mobility to use the system anytime, anywhere.

Laboratory accuracy and precision

The accuracy of the Hb 201+ system has proven to be $\pm 1.5\%$ compared to the international reference method for Hemoglobin (the ICSH method). Many studies also show excellent correlation with different laboratory systems. As there is no batch-to-batch variation, there is no need for re-calibration or instrument adjustment between cuvette batches. Also, by measuring at two wavelengths, the system automatically compensates for turbidity (e.g. high WBC and lipids) in the sample.

Cuvette package flexibility

The choice of two cuvette package alternatives optimises shelf life also for the low volume user. Our new single-pack concept gives each unopened cuvette a shelf life of one year. Each box contains 25 cuvettes. For high-volume users the 50-cuvette container is a

better choice. In an unopened container, the expiry date from production is 2 years. Once the container is opened, the microcuvettes are stable for 3 months. Regardless what package is preferred, each cuvette is produced under rigid quality specifications that meets or exceeds FDA Good Manufacturing Practice (GMP) guidelines.

User friendliness and minimal maintenance

The system is easy to use and easy to learn. After a brief in-service training, even non-laboratory personnel can perform the test in a safe and accurate manner. The analyser is factory calibrated and the calibration is verified automatically every time the instrument is turned on. This new function means a control cuvette is no longer needed. An optional audio signal will alert you when the result is displayed. Our new cuvette holder design minimises maintenance and cleaning, by preventing contamination of the optronic unit.

Data storage possibilities

To make the system even more useful, the Hb 201+ system has the possibility to store up to 600 results together with date and time. Results can be transferred to a small label printer or to a PC for storage or further analysis. Control values are differentiated from the patient results with a flag function.

HemoCue Hb 201+ Specification

System

The HemoCue Hb 201+ system consists of two parts: a disposable microcuvette containing dry reagent and a factory calibrated analyser. To ensure accuracy and precision of the system, neither part can be replaced by another brand.

Method

A modification of Vanzetti's reagents which yield an azidmethemoglobin reaction within one minute. The method correlates very well with the international reference method for hemoglobin determination (ICSH).

Photometer

Dual wavelength measuring method, 570 nm for hemoglobin measurement and 880 nm for turbidity compensation. Data storage of up to 600 results together with date and time.

Sample material

10 µL of capillary, venous or arterial blood.

Results

Displayed within 15–60 seconds depending on the hemoglobin concentration. Measurement in g/L, g/dL or mmol/L as desired.

Measuring range

0–256 g/L (0–25.6 g/dL, 0–15.9 mmol/L)

Quality Control

The HemoCue Hb 201+ has an internal electronic selftest. Every time the photometer is turned on, it will automatically verify the performance of the optronic unit. This test is performed every second hour if the photometer is on. If quality control checks are required for regulatory reasons they should be performed using liquid controls recommended by HemoCue.

