

HemoCue Hb 201+ System

**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 and push the holder into the measuring position...



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

# Excellent Precision and Accuracy.

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

As a hand-held analyzer, the HemoCue Hb 201+ System offers various features and benefits. The optimal cuvette packaging allows the flexibility and mobility for use of the system anytime, anywhere.

## Laboratory precision and accuracy

The accuracy of the Hb 201+ System is  $\pm 1.5\%$  when compared to the international reference method for hemoglobin (the ICSH method). Many studies also show excellent correlation with different laboratory systems. There is no need to recalibrate the instrument when new batches of cuvettes are put into use. Additionally, by measuring at two wavelengths, the system automatically compensates for turbidity (e.g. high WBC and lipids) in the sample, improving accuracy.

## Lab-Accurate Performance

The HemoCue hemoglobin systems achieve precision and accuracy matching that of a central laboratory. We ensure that all products leaving our production facility meet or exceed rigorous specifications for: within lot variation, lot-to-lot variation, calibration, instrument-to-instrument variation, and total system variation.

Each of more than 400,000<sup>1</sup> cuvettes produced each day are inspected. Our analyzers require no recalibration. Throughout the lifetime of the analyzers, and from one cuvette lot to the next, HemoCue's testing systems remain as accurate as the day they left the factory.

## Microcuvettes

Microcuvettes are packaged either in 4 vials of 50 or 4 boxes of 25 individually packaged microcuvettes.



The unique, disposable microcuvette is the heart of the HemoCue system. The correct volume of blood is drawn into the cuvette by capillary action, which initiates the reaction.

## User friendly and minimal maintenance

The system is easy to learn and easy to use. After a brief instruction, even non-laboratory personnel can perform the test safely and accurately. The analyzer is factory calibrated, which is automatically verified every time the instrument is switched on. The "selftest" eliminates the need for a control cuvette. The cuvette holder design reduces the need for cleaning by minimizing the contamination of the optronic unit.

## \*Reimbursement

CPT Code 85018QW - \$3.46 (national ceiling)

\*The CPT Codes provided are for informational purposes only. CPT coding is the sole responsibility of the billing party.

<sup>1</sup>This number is reflective of all products.

## HemoCue Hb 201<sup>+</sup> System Specifications

### System

The HemoCue Hb 201<sup>+</sup> System consists of two parts: a disposable microcuvette containing dry reagent and a factory-calibrated analyzer. The HemoCue Hb 201<sup>+</sup> Analyzer should only be used with HemoCue Hb 201 Microcuvettes.

### Method

The Hb 201<sup>+</sup> System uses a modification of Vanzetti's reagents, utilizing an azidemethemoglobin reaction yielding results within one minute. This method correlates well with the international reference method for hemoglobin determination (ICSH).

### Analyzer

Measurements are made at two wavelengths, 570 nm for hemoglobin measurement and 880 nm for turbidity compensation.

### Specimen requirement

10  $\mu$ L of capillary, venous, or arterial blood are needed for the assay.

### Results

Results are displayed in g/dL within 15–60 seconds depending on the hemoglobin concentration.

### Measuring range

The measuring range is 0-25.6 g/dL.

### Quality control

The HemoCue Hb 201<sup>+</sup> has an internal electronic “selftest” which automatically verifies that the optronic unit of the instrument is working properly each time the analyzer is switched on and every second hour thereafter. If additional quality control testing is required for regulatory reasons, contact HemoCue, Inc. for control information.



Lab Quality At Your Fingertips<sup>®</sup>

 **HEMOCUE**<sup>®</sup>  
A Quest Diagnostics Company