HemoPoint® H2
Frequently asked questions

Hematology

Maternal and Women's Health

Measurement

Q: What does HemoPoint® H2 measure?

A: The HemoPoint® H2 measures total hemoglobin.

Q: How long is the typical measuring time?

A: The analyzer will give results in 30 - 60 seconds. The typical measuring time you can expect is about 30 seconds.

Q: What measuring method is used?

A: The azide methemoglobin method is used.

Q: What is the reference method?

A: The HemoPoint® H2 analyzer is calibrated against the cyanmethemoglobin reference method, known as NCCLS (now CLSI) reference method and yields results comparable with ICSH standards.

Q: What is the measuring range of the instrument?

A: From 0 - 256 g/L; 0 - 25.6 g/dL; 0 - 15.9 mmol/L

Q: What is the conversion factor for calculating the hematocrit value?

A: Hb in g/dL x 2.94 (% in hematocrit)

Q: What are the factors for conversion into the various Hb units?

A: Conversion:

- g/L in mmol/L: 1 g/L = 0.062 mmol/L
- mmol/L in g/L: 1 mmol/L = 16.129 g/L

Q: Why is the hematocrit value not shown on the display?

A: The display must be set up to show the hematocrit result. If this has been done but the hematocrit still does not appear, the value is out of normal range for hemoglobin (120 - 180 g/L or 7.44 - 11.16 mmol/L).

Q: What is the accuracy of the HemoPoint® H2 Analyzer?

A: The analyzer is accurate to +/- 0.3 g/dL at about 14.0 g/dL.

Q: What is the CV of HemoPoint® H2? How big are the typical fluctuations of measured values?

A: HemoPoint® H2 guarantees a CV of <1.5%. During evaluation the values shown in table 1.0 were determined.

Table 1.0

Hemoglobin/high (15.7 g/dL) Total precision (EP5-A)	S_T 0.174 g/dL, CV 1.2 %
Hemoglobin/normal (11.8 g/dL) Total precision (EP5-A)	S_T 0.162 g/dL, CV 1.4 %
Hemoglobin/low (8.0 g/dL) Total precision (EP5-A)	S_T 0.122 g/dL, CV 1.5 %

Data export and data management

Q: Is there a Data Management version of HemoPoint® H2?

A: The HemoPoint® H2 DMS allows the installation of data management functions on the device. The configuration can be done using the InterLink™ PC software (full version required). The export of results with time, date and linked data entries to the PC is handled by the InterLink™ software.

Q: How can HemoPoint® H2 and HemoPoint® H2 DMS be connected to a PC?

A: The HemoPoint® H2 and HemoPoint® H2 DMS can be connected to a PC using serial (Sub-D 9 pin) or USB cables which need to be ordered separately. On HemoPoint® H2 DMS an integrated Bluetooth interface is available, too.

Q: What data management functions are available?

A: Barcode identification of patients, access control and identification of operators, recognition of cuvette LOT and control materials, definition of Quality Control scheme and QC lockout function, addition of comments to test results, flagging of rejected values and range violations. Barcodes are conveniently read into the device using an ergonomic hand-held scanner.

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Maintenance

Q: Does the device need to be calibrated?

A: No, it is factory calibrated.

Q: How often should the optics be cleaned?

A: The optical unit should be cleaned when error message “Dirty Optics – Use Optics Cleaner” is displayed. Depending on usage and sample through-put more frequent cleaning may be required. The HemoPoint® H2 Optics Cleaner should be used for cleaning the optics. Doing this the cuvette holder must be removed from the instrument and should be cleaned with a mild soap solution. For disinfection, standard solvent-free preparations can be used.

Q: How long will the analyzer operate on a fully charged battery?

A: A fully charged battery will allow 100 hours continuous operation. On a full charge the analyzer can also sit in stand-by mode for up to 30 days.

Q: Is it necessary to replace the integrated rechargeable battery?

A: It is not necessary to replace the battery.

Q: What happens if the reset button is pressed?

A: The date and time must be re-entered. All other settings remain as they were.

Sampling and Control

Q: How many tests may be taken per puncture?

A: We recommend only one test per puncture.

Q: Are there any problems associated with using blood from blood collection systems with coagulation inhibitors?

A: EDTA, NaF and heparin have been shown not to influence test results. Care should be taken to ensure the sample is thoroughly mixed prior to testing.

Q: How soon should a microcuvette be used after it has been removed from the container?

A: Even if several measurements are carried out one after the other, only one cuvette should be removed from the container at a time. The microcuvette should be used immediately after it has been removed from the container. The container must be closed immediately afterwards because the cuvettes are sensitive to humidity.

Q: What control features are available with the HemoPoint® H2?

A: Unlike other brands, three methods for quality control are available for HemoPoint® H2:

1. Each time the device is turned on a self test is performed automatically.
2. A control cuvette is included as a physical standard to check the optical unit of the device.
3. Liquid quality controls (Hgb Controls) are available for HemoPoint® H2. Please ask your local sales representative.

Microcuvettes

Q: What is the impact of air bubbles on the measured result?

A: Air bubbles can affect the measured result. We recommend that if an air bubble is present the cuvette should be disposed of. The rounded tip of HemoPoint® H2 n.x.t cuvettes allows holding of the cuvette in any angle to the sample. An air vent (opening) at the rear of the sample cavity reduces the risk of introducing air bubbles nearly to zero.

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