The PC100 Platelet Counter is a highly portable point-of-care device that accurately counts cells (platelets / thrombocytes) in minutes.

The automatic cell counter for thrombocytes or platelets is able to accurately count platelet concentrations in whole blood. The platelet counter is a device which removes the need to count thrombocytes manually and is a cost effective, small and a flexible alternative to flowcytometers. The measurement principle is based on patented optical technology. All parts that come into contact with blood are disposable — no contamination, no cleaning time. The total blood sample preparation and automatic counting is done typically within 15 minutes.

**FAST**

Full platelet count including blood sample preparation typically within 15 minutes.

**EASY TO OPERATE**

The device uses disposable counting slides which makes it fast, clean and accurate.

**ACCURATE**

Highly accurate, reproducible and medically validated by Maastricht University Hospital.

**COUNTS LOW TO HIGH**

It counts from 20 to 600 platelets per nl in whole blood. Also counts higher concentrations (validation pending).
MEDICAL IVD DEVICE


FAST COUNTING

Complete blood sample preparation & platelet count typically within 15 minutes.

PC100 DISPOSABLE KIT

Eppendorf vials with reagent 1:25 (480 μl) & disposable counting slides.

ACCURATE RESULTS

Results comparable to flow cytometry (gold standard) & manual count.

PC100 SOFTWARE

Easy to operate software. Single click measurements. Advanced research mode for more measurement details.

PC100 COMPUTER

The PC100 software runs on Windows 8/10 (x64) machines with free USB3 and USB2 ports (i7, 8Gb RAM, 250Gb SSD recommended).

ACCURACY

The results of regression analysis showed that the PC100 can count platelets of blood samples with an average bias (inaccuracy) of -3.362 (-2.312%) across the concentration range of 20-600 plt/nl.

Benchmark: Sysmex XN9000 flow cytometer

PRECISION

The CV% was calculated for the platelets of blood samples counted by PC100 over the concentration range of 20 to 600 plt/nl. The CV% (imprecision) varies with an average of 2.5% across the measurement range. This indicating that within the range of 20-600 plt/nl, the PC100 can count platelet of blood samples with an average precision of 97.5%.

VALIDATION

The platelet counter PC100 is validated for 20-600 plt/nl. For platelet concentrations above 600 plt/nl another reagent dilution is required (validation for higher concentrations is pending). The validation is executed by Maastricht UMC+, Clinical Thrombosis & Hemostasis in the Netherlands.

MORE INFORMATION

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DUTCH MEDICAL DEVICES BV

Dutch Medical Devices (DMD) is a medtech company focused on point of care diagnostic devices. The company's mission is to bring innovative Point of Care diagnostic devices for biomarker measurement to market, making diagnosis and therapy faster, easier, more accessible, and more cost effective.

DMD has a Quality Management System according to EN ISO 13485:2016+AC:2016