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 cost effective, small and flexible alternative to flowcytometers. The measurement principle is based on patented optical technology. All parts that come into contact with blood are disposable – non 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 within 15 minutes.

**EASY TO OPERATE**

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

**ADVANTAGES OF MEASUREMENT**

- Detection of too high (>400) or too low (<50) platelet concentrations
- Over or under dosing prevention
- Enables compensation, during preparation of PRP, for natural variations (150-360 platelets/nl) between individuals
- Enables compensation for differences between centrifuges.

**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 count higher concentrations (validation pending).

**TYPICAL APPLICATIONS**

- Skin care using PRP (fillers, plastic surgery,..)
- Hair growth improvement
- Orthopaedic treatments
**MEDICAL IVD DEVICE**

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

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

**PC100 DISPOSABLE KIT**
Eppendorf vials with reagent 1:25 (480 µl) & disposable counting slides.

**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 (8, 89b RAM, 2000b SSD recommended). The PC100 computer is validated for 20-600 p/l/ml. For platelet concentrations above 600 p/l/ml another reagent dilution is required (validation for higher concentrations is pending). The validation is executed by Maastricht UMC+, Clinical Thrombosis & Hemostasis in the Netherlands.

**ACCURACY**
The results of regression analysis showed that the PC100 can count platelets of blood samples with an average bias (inaccuracy) of -3.38² (-2.31±2%) across the concentration range of 20-600 p/l/ml.

**PRECISION**
The CV% was calculated for the platelets of blood samples counted by PC100 over the concentration range of 20 to 600 p/l/ml. The CV% (imprecision) varies with an average of 2.5% across the measurement range. This indicating that within the range of 20-600 p/l/ml, 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 p/l/ml. For platelet concentrations above 600 p/l/ml another reagent dilution is required (validation for higher concentrations is pending). The validation is executed by Maastricht UMC+, Clinical Thrombosis & Hemostasis in the Netherlands.

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**More Information**
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**Certification**
The PC100 Platelet counter and PC100 disposable kits have been manufactured by Dutch Medical Devices (DMD) according to EN ISO 13485:2016+AC:2016