PLATELET COUNTER
Fast & Accurate Platelet Counts

- Fast - blood sample preparation & platelet count within 10 minutes
- Accurate - results, close to manual counting (golden standard)
- Works in whole blood as well as in platelet rich plasma
- Easy to use - disposable counting chamber & full automatic counting

Measure platelet concentrations in whole blood or platelet rich plasma

The automatic cell counter for thrombocytes or platelets is able to accurately count platelet concentrations in whole blood as well as in Platelet Rich Plasma (PRP) up to 10x baseline. The platelet counter is a device which removes the need to count thrombocytes manually and is a 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 - no contamination, no cleaning time. The total blood sample preparation and automatic counting is done within 10 minutes.

Accurate results

Validation studies have shown that platelet counter measurement results are accurate within 95% compared to flowcytometry measurements. This is accomplished using intelligent platelet recognition algorithms and repeating the measurement at multiple locations in the same blood sample. Furthermore the software automatically recognizes incorrect blood samples (air bubbles or pollution that degrades the measurement accuracy).
Measurement Procedure

Step 1: take blood
venous whole blood or platelet rich plasma (PRP)

Step 2: prepare sample
lysing of red blood cells & preparation of disposable counting chamber (5min)

Step 3: insert sample
insert disposable counting chamber in the platelet counter & press START

Step 4: results
1 min per location platelet count in plt/nl accuracy > 95%

Technical Specifications

Platelet Counter Device
- Cell Size: 1-20 μm, optimized for platelets
- Dimensions [W x D x H]: 120 x 210 x 310mm
- Indicators: power, error
- Buttons: power on/off
- Measurement time: 30-40 seconds
- Connections:
  - power (9V, 2000mA)
  - 2x USB (camera & device control)

Disposable Kit (100pcs)
- Capillary tube holder
- 10μl glass capillary tube
- 20μl glass capillary tube
- Eppendorf tube with reagents
- Glass counting chamber

Medical CE certification pending

OEM possibilities to extend the platelet counter functionality to count red and white blood cells in the same device.

Platelet Counter Analysis Software
- Fully automatic count or semi automatic mode
- Real-image view of measurement results
- Supported OS: WinXP SP3, Vista, Win7/8 (x32 & x64)
- 1.6 GHz or higher, 4GB RAM recommended
- 2x USB 2.0 port

Content
- Power adapter: 100-240V AC 50-60 Hz, 0.5A
- Platelet Counter device
- Cables & Manual

Note: laptop standard not included or on request!

Expected CV for 2:50 dilution

Benchmark: Sysmex XN9000

More information

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