



iMOST L Hematology Analyzer

iMOST L Hematology Analyzer is a lightweight, compact, and portable automated quantitative blood cell analyzer that combines innovative micro-nano technology with biochemistry and computer vision for blood analysis. It can be used for rapid in vitro quantitative measurements of hemoglobin (HGB), white blood cell count (WBC), neutrophil percentage (NEU%), lymphocyte percentage (LYM%), monocyte percentage (MON%), eosinophil percentage (EOS%), basophil percentage (BAS%), neutrophil count (NEU#), lymphocyte count (LYM#), monocyte count (MON#), eosinophil count (EOS#), and basophil count (BAS#).

The iMOST system includes the iMOST L analyzer, the disposable test cards (Q-Card), and related accessories. The test cartridge Q-Card is a sealed plastic part which contains the required reagents to run the defined test which can accept a blood or control sample from a transfer pipette. The test cartridge will interface simply and seamlessly with the instrument such that the operator's technical requirements to conduct the test are minimal.

Intended Use

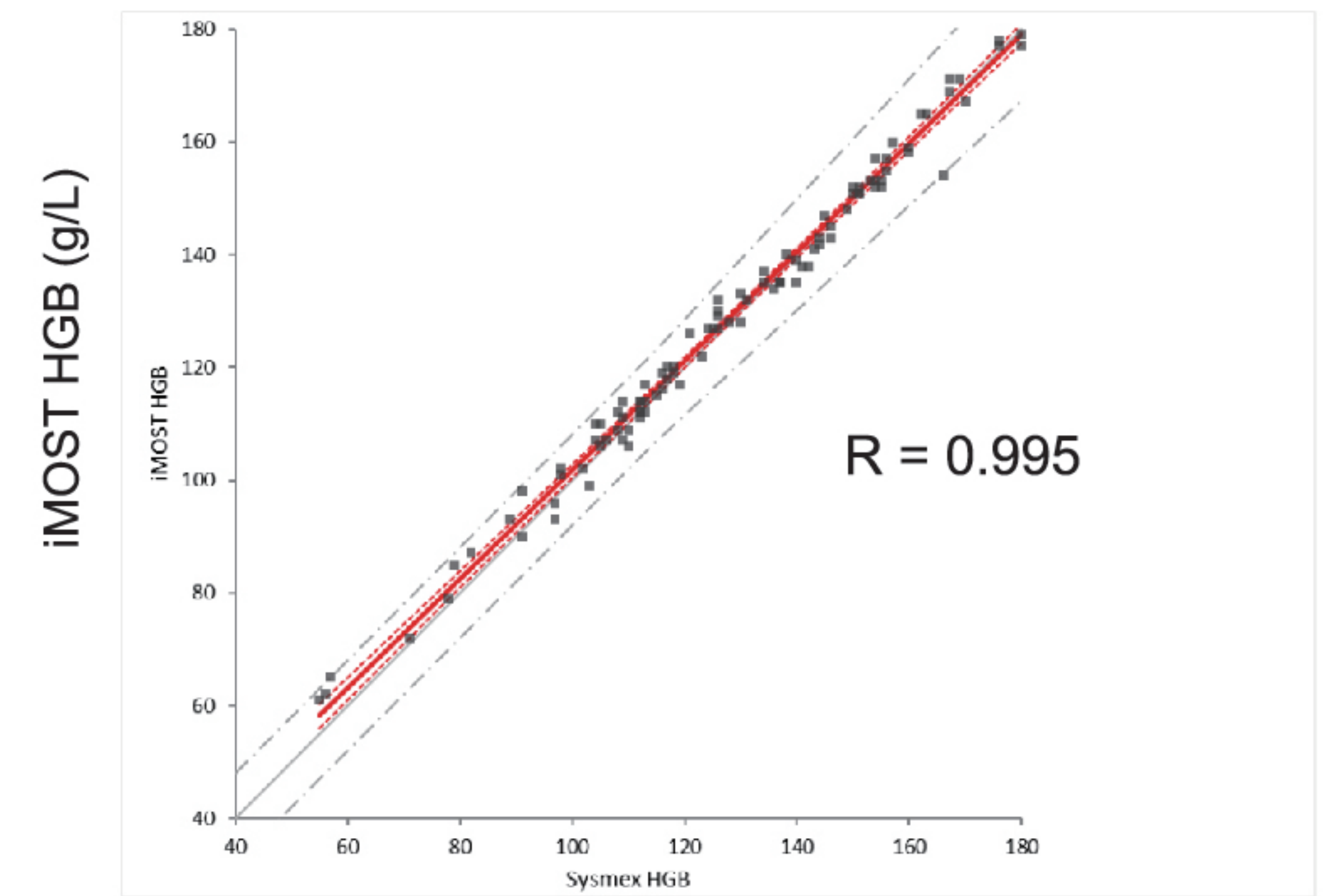
iMOST L is intended for use in community clinics, hospital emergency departments, inpatient wards, health centers, testing centers, point-of-care settings, and similar settings for the quantitative measurement of key CBC parameters in small-volume (10 microliters) venous and capillary blood samples. iMOST L should be used only with the iMOST L test cards (Q-Card). iMOST L is suitable to be used for testing for adults and adolescents, and children. iMOST L supports integration with electronic medical record systems.

R&D	Clinics					Hospitals		Home	
BioPharma, CRO, Pharms, Animal/Human	Free Standing ED	Urgent Care Center	POL MC CW	Public Health Clinic CHC, FQHC	Retail Clinic	Doctors Small Hospital Labs	ED, ICU, SIRS Bedside	OTC Pharmacy Self-Testing	Home Health, Telemedicine, Well-being

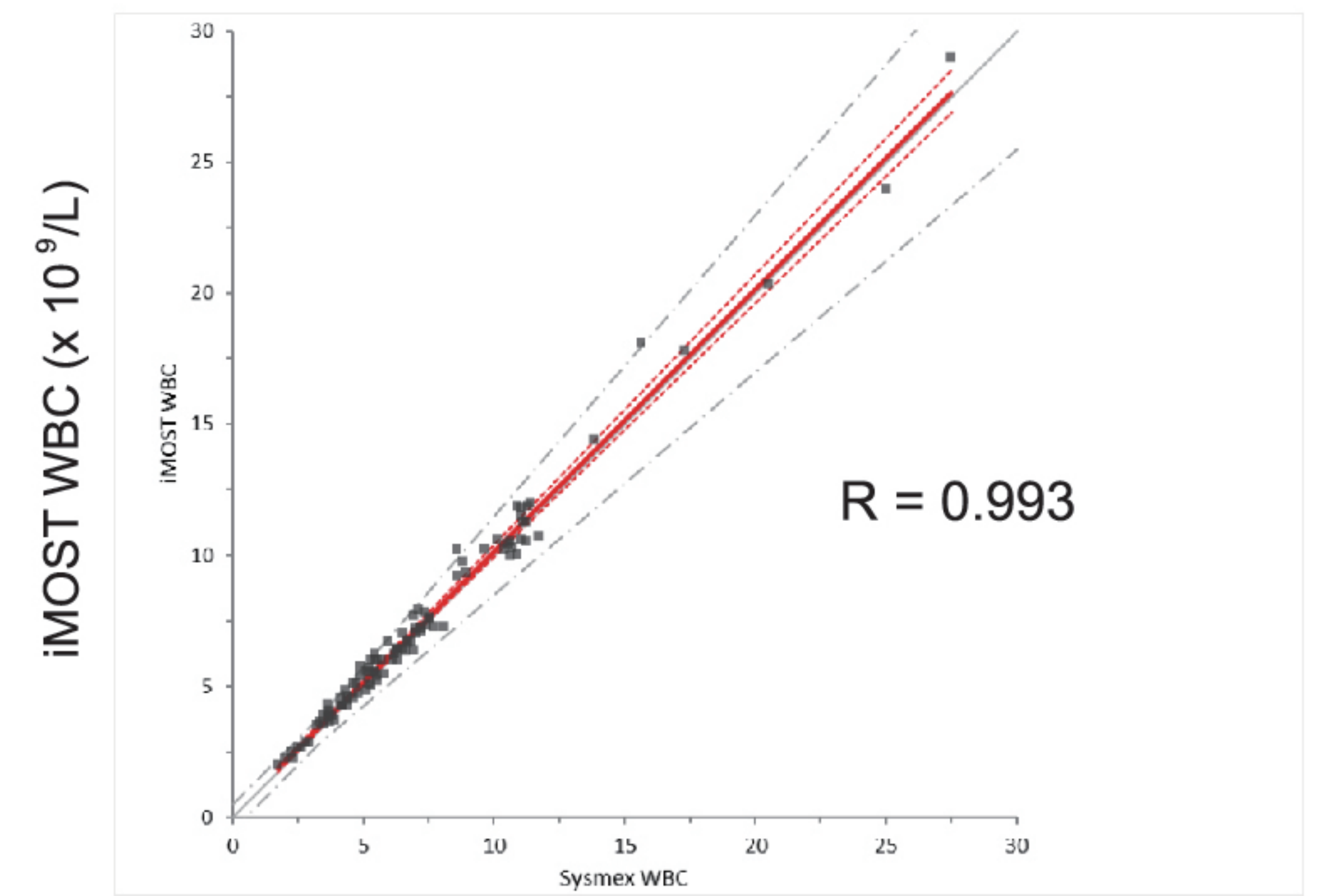
Technical Specifications

Test Parameters	Hemoglobin (HGB), White Blood Cell Count (WBC), White Blood Cell 5-Part Differential: NEU#, NEU%, LYM#, LYM%, MON#, MON%, EOS#, EOS%, BAS#, BAS%
Testing Range	Hemoglobin (HGB): 5 – 24 g/dL White Blood Cell Count (WBC): 1 – 30 x 10 ⁹ /L
Measuring Time	2 - 3 minutes
Testing Samples	Venous and capillary blood K ₂ EDTA anticoagulant
Sample Volume	10 microliters (10 µL)
Instrument Dimensions	Reader: 220 mm x 110 mm x 80 mm Q-Card: 24 mm x 32 mm x 1.2 mm
Weight	Analyzer: 997 g
Operating Conditions	Operating environment temperature: +15°C to +30°C* Operating relative humidity environment: up to 80% RH Operating altitude: can operate at altitudes up to 2000m above sea level (* iMOST continues to improve its performance across a broader temperature.)
Calibration	Factory-calibrated; needs no further calibration
Quality Control	Built-in self-check; optional liquid controls

iMOST L vs Lab Hematology Analyzer*



Lab Hematology Analyzer HGB (g/L)



Lab Hematology Analyzer WBC (x 10⁹/L)

* Clinical study with 100+ patients' samples
* Lab Hematology Analyzer as Sysmex XN or Horiba Pentra

Technology

- Innovative combination of nanotechnology, machine learning / AI and new bio/assay process.
- Fault tolerant for improving accuracy and reliability.
- A platform to test several assays in one Q-Card for many sample types.
- Applications in hematology, pathology, chemical test, immunoassay.

iMOST L Analyzer



Q-Card

Presser



Usage Steps

Open Q-Card	Put on Presser	Add Sample & Close Q-Card	Insert to Analyzer	Test	Get Results