

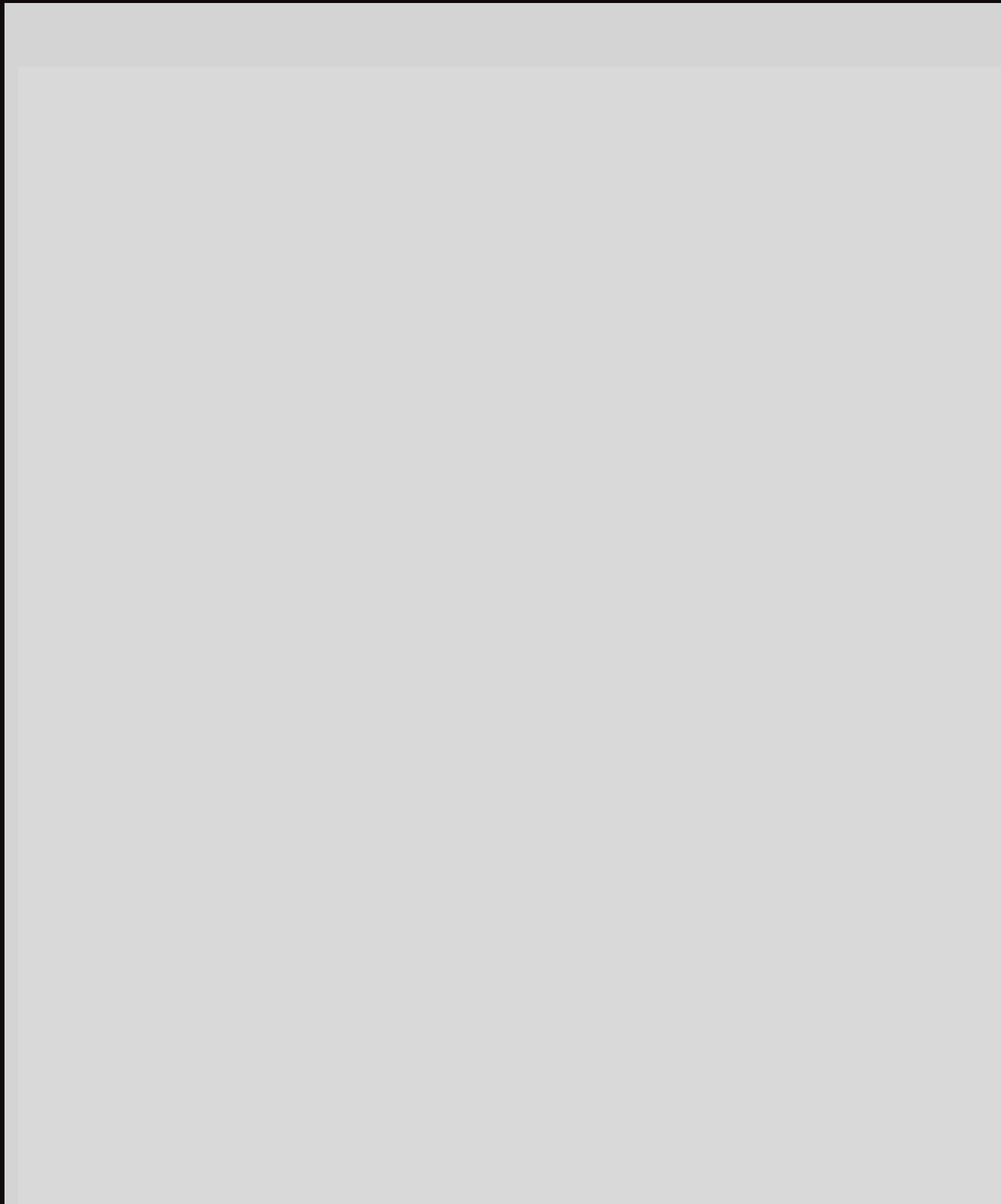
Celltac G

Fully-automated Hematology Analyzer
MEK-9100K



Fighting Disease with Electronics

 NIHON KOHDEN



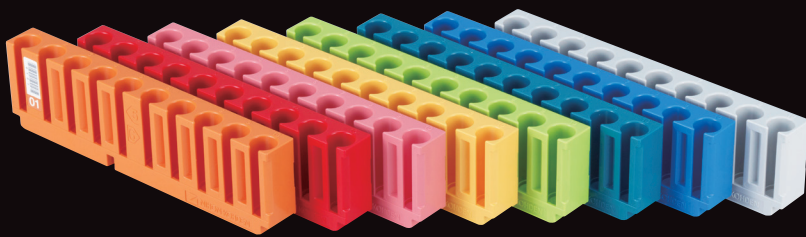
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Smart ColoRac Match

Celltac G Smart ColoRac Match helps fast and easy location of clinically abnormal tubes as well as scan-failed barcoded tubes using the unique color-coded rack system that is associated with data management software on the analyzer. This unique user-oriented Smart ColoRac Match system enhances lab's efficiency without extra investment, extra space and special operator training. The Smart ColoRac Match surely maximizes lab's productivity for faster and more accurate test report.



Data List		John Smith		2015/09/15 19:00:33								
Rack		Measurement Unit Ready										
Sample ID	Patient ID	Patient Name	Test Date	P/E	Check	A/M	Rack					
01234567890123456789	98765432109876543210	test_name.patient	2015/09/10 20:09	E		A	0503					
All	Finished Rack	1	2	3	4	5	6	7	8	9	10	
	Rack 06	○	○	○	○	○	○	○	○	○	○	○
	Rack 05	○	P	E	○	○	○	○	○	○	○	○
	Rack 04	○	○	○	○	○	○	○	○	○	○	○
	Rack 03	○	○	○	○	○	○	○	○	○	○	○
	Rack 02	○	○	○	○	○	○	○	○	○	○	○
	Rack 01	○	○	○	○	○	○	○	○	○	○	○

- P : There are some items determined as positive
- E : Measurement error
- B : Barcode error



Transforming the possibility of IVD solutions



Complete hematology platform offering:

- Up to 90 samples per hour
- 33 parameters
- Micro sampling capability
- Continuous loading of samples via rack fed system up to 7 racks of 10 tubes
- STAT/manual sample analysis
- Laser scatter + flow cytometry technology
- Built-in rocking mixing
- Smart ColoRac Match system
- Integrated validation station with touch screen
- Reagent and controls management with barcode

Status indicator



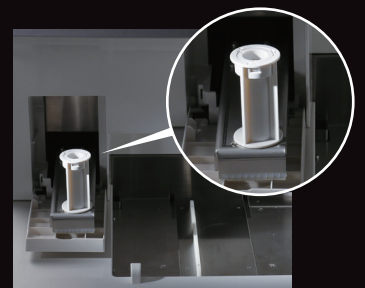
Celltac G status indicator is located in the front panel and clearly illustrates different operating status of the analyzer. For example, the operator can quickly recognize the need for reagent replacement by just looking at the status indicator turning red.

Homogeneous tube mixing



Each tube is picked up one by one from color-coded racks and gently mixed with built-in complete tube inversion mixing arm. Our auto-loading system contributes to faster test report to clinical decision makers and enhances workflow efficiency.

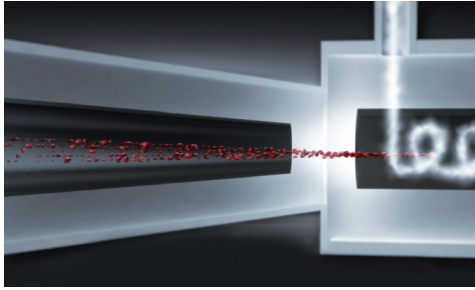
STAT mode



STAT and Pre-dilution modes analyze micro-samples such as pediatric blood collected from the earlobe or fingertip. Celltac G provides solutions based on the true laboratory needs.

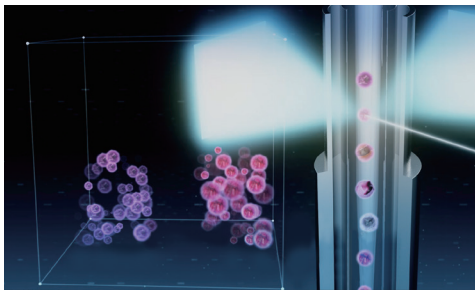
Innovation for superior reliability

DynaHelix Flow



The DynaHelix Flow technology perfectly aligns WBC, RBC and PLT cells for high impedance counting precision using advanced hydrodynamic-focused sheath flow before passing through the aperture. In addition, the DynaHelix Flow totally prevent risk of coincidence or count of blood cell re-entry into the aperture using unique DynaHelix Flow stream. This newly-developed advanced DynaHelix Flow technology greatly improve counting precision and accuracy.

DynaScatter Laser



Celltac G's DynaScatter Laser optical technology truly analyzes and differentiates WBCs in near-native state. The innovative 3 angle scatter detector provides better detection of WBCs using precise light scattering measurement. We obtain WBC size information from a small forward angle (FSS), information of cell structure and complexity of nucleo-chromatin particles from a large forward angle (FLS), and internal granularity and globularity information from a side angle (SDS). This 3D graphic information is calculated by the exclusive Nihon Kohden software algorithm.



Solutions simplifying your daily work

Walk Away System



Celltac G's fully-automated random access walk away loading system enables up to 90 tests per hour by just continuously inserting the color-coded racks on the system.

Seamless Information Transfer



Celltac G's HL7 based information system enables seamless bi-directional information transfer to laboratory information systems.



Celltac G reports 33 parameters at once in 40 seconds just with 40μL of whole blood. Newly-added RDWI and Mentzer Index provide clinically-valuable information for differentiating B-thalassemia trait possibility or iron deficiency anemia possibility in microcytic anemia cases.



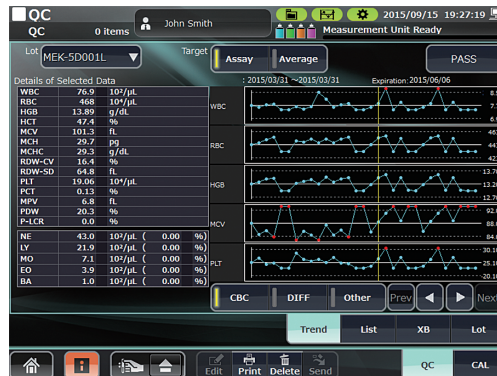
Also both P-LCR and P-LCC parameters provide information for possible giant platelet, platelet aggregation, or fragment cell presence. These new parameters help faster clinical decision making as well as more accurate diagnosis.



Quality first



Celltac G's reagent management system helps easier reagent bottle management. With this feature, testing quality is always maintained at high standard level.



Celltac G provides complete traceable QC records that meet laboratory accreditation requirements. In addition, reagent management report, maintenance report, calibration history report, analyzer's daily self-check report and many other reports or logs are always stored using internal memory for evidence of compliance for laboratory accreditation requirements.