

Automated Hematology Analyzer

MEK-7300K

WBC 5-part diff. model FOR EVERYONE





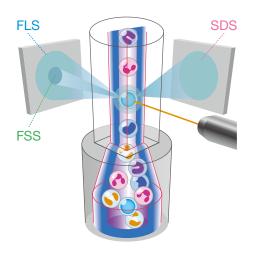
MEK-7300

Methodology and Effectiveness



WBC differentiation by low cost non-staining method

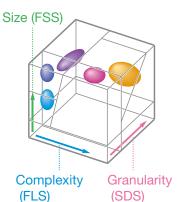
Flow cell



Flow cell with Fresnel lenses

WBC is differentiated based on the laser scattering technology

Three scattergrams



Size (FSS)

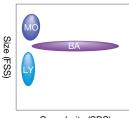
Granularity (SDS)

2. NE-EO scattergram Differentiates neutrophils/ eosinophils

Size (FSS)

Complexity (FLS) 1. MAIN scattergram

Differentiates lymphocytes/monocytes + basophils/neutrophils + eosinophils

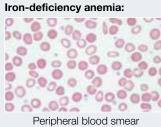


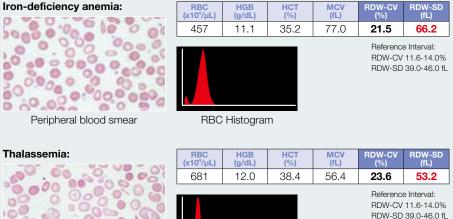
Granularity (SDS)

3. MO-BA scattergram Differentiates monocytes/ basophils

Case of Thalassemia

We compared RBC-related blood cell counts and histograms for thaiassemia and iron-deficiency anemia. Then we found difference in the RDW-SD of thatassemia and iron-deficiency anemia patients while RDW-CV and histograpms do not show such significant differences.





Peripheral blood smear

RBC Histogram

Reagent management

Reagent management system of Celltac Es provides easier reagent bottle management with a unique barcode label printed on each reagent box or bottle. With this feature, testing quality is maintained at a consistently high level.



Standard accessory, barcode reader

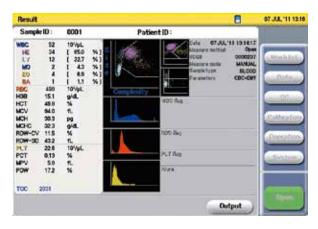
Closed mode for safe operation

The built-in cap piercing mechanism protects healthcare professionals from the risk of infection. It maintains a high standard of operating safety in the laboratory.



Large screen for easy viewing

The user can see all necessary information at a glance or focus on different areas like zooming into scattergrams, histograms, or the numeric values.



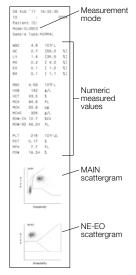
Operational guidance function

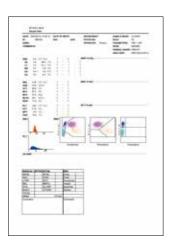
If the analyzer detects a problem, it displays an alarm message with a sound. When recovery key is pressed, the analyzer automatically removes the cause of the alarm.

Alarm		8	15 JUL 11 0850
			Brady
Alarm	literenta laterena	Noliquid	Worklist
A001Noisotonae-31			Data OC
			Calibration
No liquid detected.			Cr.clinical
Replace the reagent and pr	ess the Necovery Button		System
ок	(Recovery	Open
@)			man

Example of printing

A built-in printer or a data management system installed on a PC can print out results.





Internal printer

External printer



Specifications

- Dimensions and Weight: Dimensions: 382 W x 465 D x 532 H (mm) Weight: 35 kg ±10%
- Power Requirements: Line voltage: AC 100 to 240 V Power input: max 250 VA
- 23 Reportable Parameters: WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, PCT, MPV, PDW, NE, NE%, LY, LY%, MO, MO%, EO, EO%, BA, BA%
- 2 Research Parameters: IG, IG%
- Throughput: Approx. 60 samples per hour (CBC + DIFF)

Patient Memory Capacity:

Up to 15,000 patient data (including MEK file, CSV, and histogram) in SD card as QM-002D

Sample volume:

- CBC: 30 µL
- CBC + DIFF: 55 μL

Barcode Format

Acceptable formats with or without check digits: Industrial 2 of 5, ITF, JAN/EAN/UPC, NW-7, CODE39, CODE93, CODE128

Operating Environment

Temperature: 15 to 30°C (59 to 86°F) Humidity: 30 to 85% (non-condensing) Atmospheric pressure: 700 to 1060 hPa (altitude: < 3000 m)

Consumables and Accessories

Diluent Hemolyzing reagent Detergent CLEANAC MEK-640 or MEK-641 MEK-680 **MEK-910 MEK-520** MEK-620 Isotonac·3 Isotonac·4 Hemolynac·3N Hemolynac.5 Cleanac Cleanac.3 Hematology control Hematology for 5 part DIFF calibrator **Related products** No. State

MEK-CAL

YZ-0194 7um Polymer Microsphere Suspensions

ZK-130W Barcode reader



QP-822V Data management software

SD is a trademark of SD-3C, LLC.

The screen is a composite image and does not show the actual data. The design may also not represent the latest actual product. This brochure may be revised or replaced by Nihon Kohden at any time without notice.



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MEK-5DL/5DN/5DH