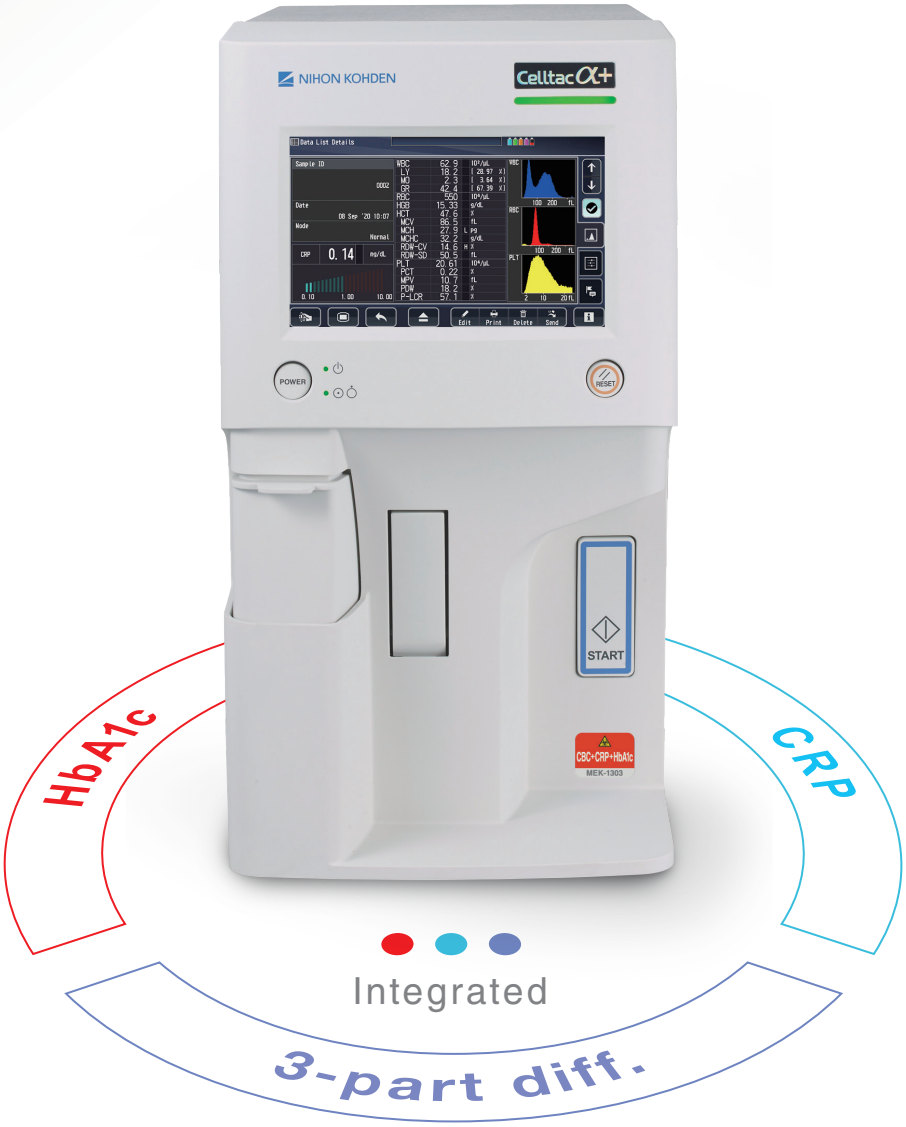
Celltac α+

Automated Hematology and Clinical Chemistry Analyzer

MEK-1303



Fighting Disease with Electronics

NIHON KOHDEN

MEK-1303

Maximize Testing Efficiency through a Single Aspiration Process

3-part diff. & CRP

Common Hematology Test Results including CRP

In some cases, a CRP test may be required rather than an ESR test, as the markers used in each test behave differently depending on the stage and cause of the inflammation.

MEK-1303 provides common hematology test results including CRP through a single aspiration process.

- CRP as Rapid Inflammation Marker
- Closed Mode for Safe Operation

HbA1c

Individual HbA1c Test

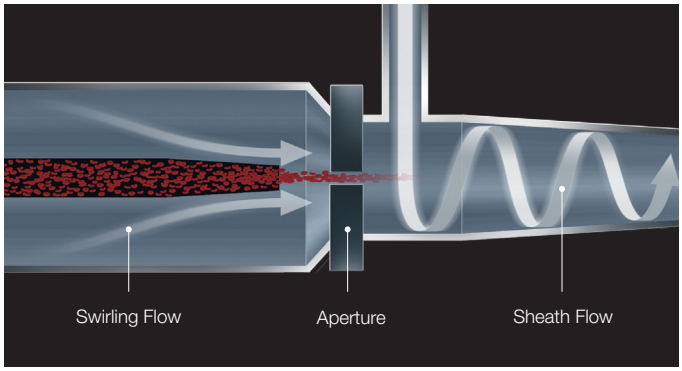
It is important to monitor HbA1c for diabetic patients. MEK-1303 provides individual HbA1c test results*.

* In HbA1c measurement mode, only the HbA1c result is output.

- NGSP Certified

Unique Technology

DynaHelix Flow Technology for Accurate CBC Results



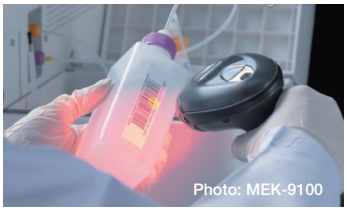
DynaHelix Flow

This unique technology reduces “re-entry” of blood cells after passing the detection aperture because the swirling flow pushes cells out into the drain path. This is very effective especially for low cell volume samples.

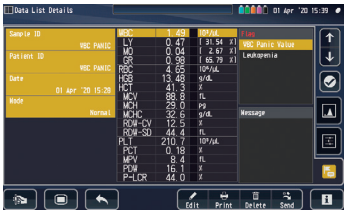
Closed Mode

Other Features in MEK-1300 Series

- Barcode reader for QC and reagent management
- Touch panel for quick operation
- PCL printer connection
- Smart ColoRerun Assist for easy alarm recognition
- ASTM connection between LIS and MEK-1300 series



Reagent Management

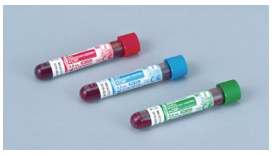


Smart ColoRerun Assist

Consumables for CRP/HbA1c Test

CR-420W
50 pcs of CRP reagent cartridges

HA-420W
50 pcs of HbA1c reagent cartridges



MEK-3CL, 3CN, 3CH
QC control for both CBC and CRP

Contact with Nihon Kohden

QC control for HbA1c
(Local purchase)

CR-CAL
0.25 mL × 3 bottles
Calibrator for CRP

HA-CAL
0.25 mL × 3 bottles
Calibrator for HbA1c

MEK-CAL
Hematology calibrator

(Option) WA-130W
External printer

Celltac α+ MEK-1303

Key Specifications

- **Reportable parameters:** 22
  WBC, LY%, MO%, GR%, LY#, MO#, GR#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, PCT, MPV, PDW, P-LCR, CRP, HbA1c

- **Research parameters:** 4
  P-LCC, Mentzer Index, RDWI, NLR

- **Measuring mode:** Open and Closed mode

- **Measurement time** (from aspiration to displaying result)
  CBC: within 1 min (Open mode)
  within 1 min 30 s (Closed mode)
  CRP: within 3 min 40 s
  HbA1c: within 5 min 30 s

- **Sample volume** (in normal mode)
  CBC only: 20 µL
  CBC and CRP: 26 µL
  HbA1c only: 10 µL

- **Measuring method**
  WBC, RBC and PLT counts: Electrical resistance detection
  HGB: Colorimetric method
  HCT: Calculated from RBC histogram
  WBC differential: Calculated from WBC histogram

Reproducibility and Linearity

- **Reproducibility**
  WBC: 2.0% or less (WBC: 4.00 x 10^3/µL or more)
  RBC: 1.5% or less (RBC: 4.00 x 10^6/µL or more)
  HGB: 1.5% or less
  HCT: 1.5% or less
  MCV: 1.0% or less
  MCH: 2.0% or less
  MCHC: 2.0% or less
  PLT: 4.0% or less (PLT: 100.0 x 10^3/µL or more)

- **Linearity**
  WBC: within ±3.0% or ±0.30 x 10^3/µL (WBC: 0.20 to 99.9 x 10^3/µL)
  RBC: within ±3.0% or ±0.08 x 10^6/µL (RBC: 0.02 to 8.00 x 10^6/µL)
  HGB: within ±1.5% or ±0.2 g/dL (HGB: 0.10 to 25.0 g/dL)
  HCT: within ±3.0% or ±1.0% (HCT: 20.0 to 60.0%)
  PLT: within ±10.0% or ±20 x 10^3/µL (PLT: 10.0 to 1490 x 10^3/µL)
  CRP: within ±15% or ±0.1 mg/dL
  HbA1c: within ±10.0%
  (Specifications above apply to the normal mode)

Physical Specifications

- **Dimensions:** 230 W x 450 D x 428 H (mm)
- **Weight:** 22 kg
- **Line voltage:** AC 100 to 240 V
- **Line frequency:** 50 or 60 Hz
- **Power input:** 150 VA
- **External output:** LAN x 1, USB x 2, RS-232C x 3

Celltac α+

MEK-1305
With ESR

MEK-1303
CRP and HbA1c

Celltac α

MEK-1302
Closed mode

MEK-1301
Open mode

The screen is a composite image and does not show the actual data. The design may also not represent the latest actual product.
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NIHON KOHDEN

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