

M680

Klinische Chemie und Immunoassays

Technische Spezifikationen

M680 Generelle Informationen

Probenhandhabung	180 Proben per Racks, kontinuierliche Beladung
STAT	40 Positionen für STAT, STAT in Priorität
Temperatur	15~30°C
Luftfeuchtigkeit	35~85%
Höhe	-400m~2000m
Maße	≤2500mmx880mmx1230mm (BxTxH)
Gewicht	670kg



Modul Klinische Chemie

Durchsatz	600 photometrische Tests/Stunde, bis zu 800 Tests/Stunde mit ISE
Messprinzip	Absorptionsphotometrie, Turbidimetrie
On-board Tests	Bis zu 77 photometrische Tests + 3 ISEs + 3 Serumindizes
Methoden	End-Punkt, Fixed-time, Kinetic, ISE
Probenvolumen	1.5~45 µl, in 0.1 µl Schritten
HbA1c Proben	Vollblut für HbA1c-Tests
Probenadel	Füllstands- und Gerinnselerkennung, Crash-Sensor
Reagenzteller	80 gekühlte Positionen (2~8°C)
Reagenzvolumen	10~200 µl, in 0.5 µl Schritten
Reagenznadel	Füllstands- und Blasenerkennung, Crash-Sensor
Reaktionsvolumen	70~300l
Maße	1380mm*860mm*1200mm (BxTxH)
Gewicht	350 kg

Modul Immunoassay

Durchsatz	Bis zu 240 Tests/Stunde
Messprinzip	Mikropartikel als Festphase, alkalischer Phosphatase (ALP) markierten Reagenzien und AMPPD-Substrat
Probenadel	Stahlnadel, Füllstands- und Gerinnselerkennung, horizontaler und vertikaler Crash-Sensor
Probenvolumen	10~200 µl, in 1 µl Schritten
Probenverdünnung	Automatische Verdünnung 1:2~1:80
Reagenzteller	25 Reagenzpositionen, die kontinuierlich Be- und Entladen werden können, stetiges Mischen der magnetischen Partikel (2~8°C)
Reagent Pack	50 Tests, 100 Tests
Reagent Probe	Stahlnadel, Füllstands-, Gerinnsel- und Blasenerkennung, horizontaler und vertikaler Crash-Sensor
Reagenzvolumen	10~200 µl, in 1 µl Schritten
Maße	1145mm*873mm*1225mm (BxTxH)
Gewicht	320 kg

www.mindray.com

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Deutschland healthcare within reach

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M680

Klinische Chemie und Immunoassays

Einfach und dennoch effizient



Reliable Test Result Based on Unique Design



High Quality Integration

- Takes up only 2.2 m² of space.
- Integrated with chemistry, immunoassay, ISE and whole-blood HbA1c.
- Flexible sample management with continuous sample loading by racks and STAT priority.

Chemistry Analyzer BS-600M

Integrated whole blood HbA1c

Integrated ISE module

Immunoassay Analyzer CL-2600i

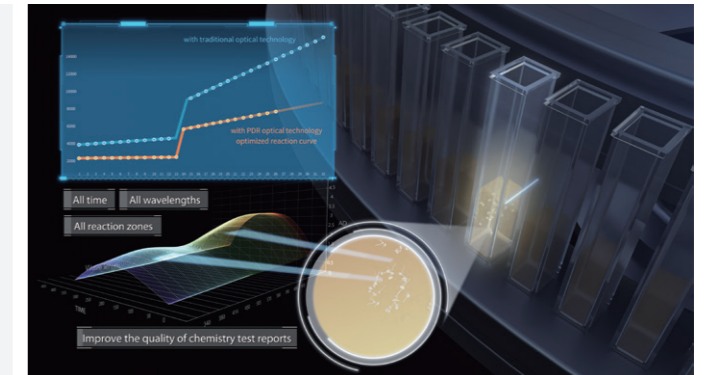


High Accuracy Level

- M680 features innovative techniques inherited from the most high-end integrated solutions of Mindray.

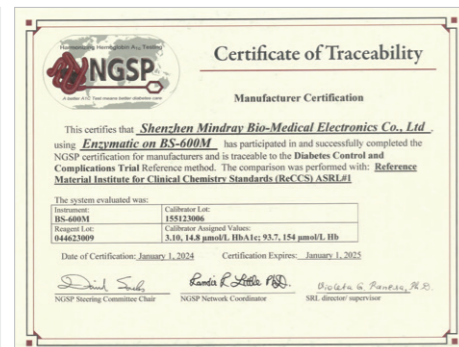
PDR Optical Platform

- PDR optical platform
- Panoramic dynamic real-time monitoring & signal traceback
- Eliminate interference and noise in the reaction process
- Stably improve the accuracy of results



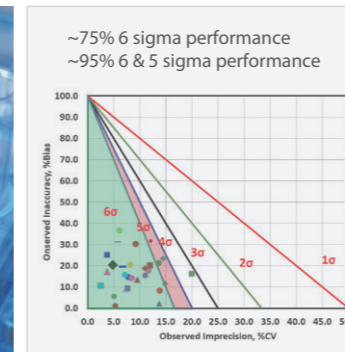
High Efficiency Operation

- Easy-to-use design allows users to optimize the work flow with fewer manual operation.



Whole-blood HbA1c

- Onboard hemolysis with whole blood to improve working efficiency.
- No manual pretreatment to reduce biohazardous risks and human errors.
- 120 T/H for HbA1c test to shorten turn-around-time.
- Results traced to IFCC/NGSP.



High Level Sigma Metric Performance

- Original reagents and validated application protocol lower the inaccuracy and imprecision which contributes to achieving world-class and excellent sigma metric performance.
- Higher sigma level system can help laboratories offer high level of quality at reduced cost and enhance clinician confidence and satisfaction.

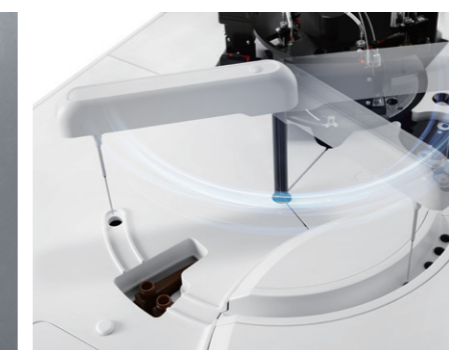
FS-Sampling

- FS-Sampling can identify sample containers based on databases and algorithms, improving the accuracy of sample aspiration.



User-friendly Design

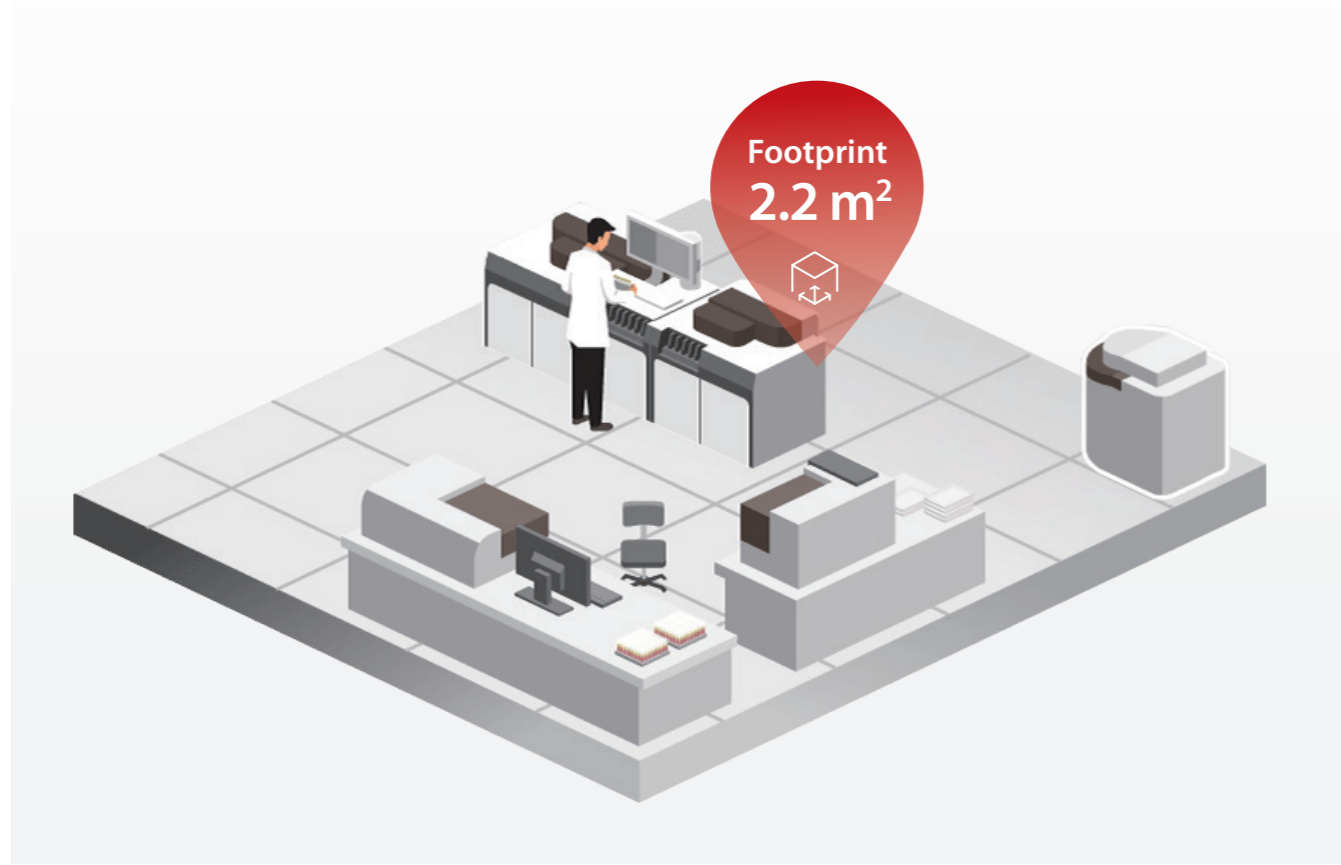
- Free of daily maintenance.
- Intelligent operation interface and breathing LED.



360° Waterfall Vacuum Washing

- 360° waterfall vacuum washing and enhanced washing eliminate carry-over <0.1 ppm.

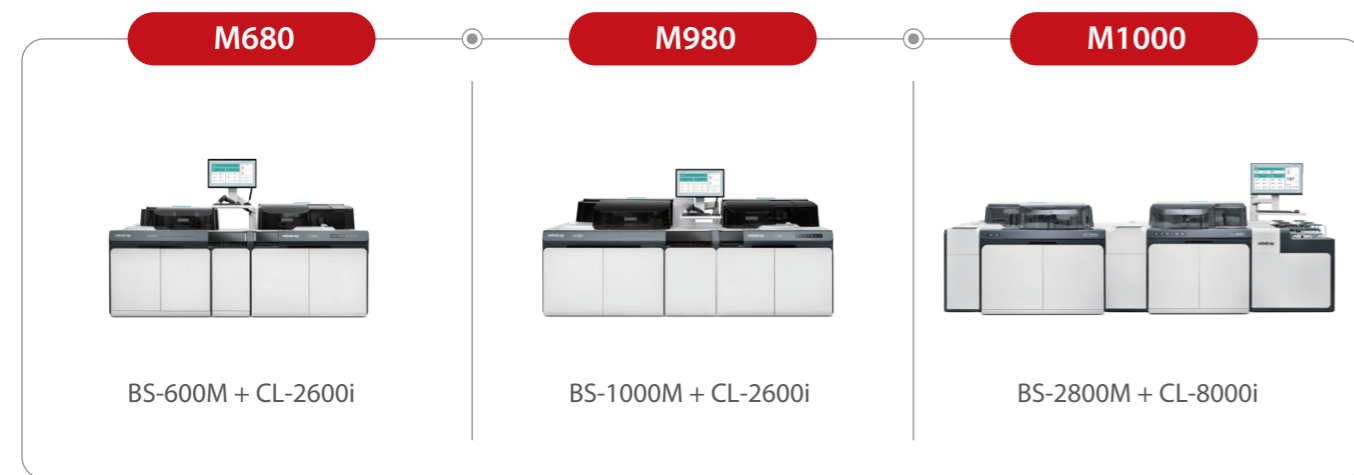
Seamless Connection, Flexible Combination



M-series Family

Mindray provides M-series integrated solution, covering the need of different customers.

M-series family is reliable and robust. Its key consumables have a longer service life, which can greatly reduce the frequency of maintenance and replacement, and reduce the service cost.



Assay Menu

Chemiluminescence					
Thyroid FT3 FT4 T3 T4 TSH Anti-Tg Anti-TPO Tg rT3 TRAB	Infectious Disease HIV Combo HBsAg Anti-HBs HBeAg Anti-HBe Anti-HBc Anti-HCV Anti-TP (Syphilis) HAV IgM* HEV IgG* HEV IgM* Anti-HAV*	Fertility Total β-HCG FSH LH Prolactin Estradiol Estriol TESTO PROG AMH Free TESTO* 17-OH PROG* SHBG*	Tumor marker CEA AFP CA125 CA15-3 CA19-9 Free PSA Total PSA NSE CYFRA 21-1 CA72-4 PG I PG II SCCA HE4 ProGRP CA50 CA242 PIVKA-II G-17 AFP-L3%* Hp IgG* S100*	Bone Metabolic Intact PTH Calcitonin Vitamin D total	Diabetes Insulin C-peptide
Liver Fibrosis Laminin Hyaluronic Acid PIIINP Collagen IV	COVID-19 SARS-COV-2 IgG SARS-COV-2 IgM SARS-COV-2 S-RBD IgG SARS-COV-2 Neutralizing Antibody	ToRCH Toxo IgG Toxo IgM Rubella IgG Rubella IgM CMV IgG CMV IgM HSV-1+2 IgG HSV-1+2 IgM HSV-1 IgG HSV-2 IgG Toxo IgG Avidity CMV IgG Avidity	Growth Hormone GH* IGF-1* IGFBP-3*	Inflammation Procalcitonin IL-6 sCD14-ST	DS DS' Screening PAPP-A* Free β-HCG*
				Anemia Ferritin Vitamin B12 Folate RBC Folate	EH Hypertension Renin Aldosterone
Clinical Chemistry					
Hepatic Panel ALT AST ALP γ-GT Bil-D DSA Bil-D VOX Bil-T DSA Bil-T VOX TP ALB TBA PA CHE AFU	Inorganic & Anemia Fe FER TRF Ca Mg P UIBC G6PD	Diabetes Panel Glu-O Glu-HK HbA1c FUN β-HB	Lipid Panel TC TG HDL-C LDL-C ApoA1 ApoB Lp(a)	Renal Panel UREA CREA-S UA CO ₂ mALB β ₂ -MG CysC RBP	Rheumatism Panel CRP RF ASO
				Pancreatitis Panel α-AMY LIP	Cardiac panel CK CK-MB LDH α-HBDH HS-CRP HCY MYO D-Dimer
					Immune Panel IgA IgG IgM IgE C3 C4
					Lung Panel ADA ACE

*: Under development

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