

STEM CERTIFICA

Certificate CN19/42081

The management system of

CLINDIAG SYSTEMS CO., LTD.

 Zhiyuan Road, Jurong Economic Development Zone, Zhenjiang City, Jiangsu Province, 212400, P.R. China.

has been assessed and certified as meeting the requirements of

ISO 13485:2016 EN ISO 13485:2016

For the following activities

Design, Development, Production, Marketing and Service of Fully Automatic Biochemistry Analyzer, Semi-Automatic Biochemistry Analyzer, Haematology Analyzer, Microplate Reader, Coagulometer, Microplate Washer, Platelet Function Analyzer, Electrolyte Analyzer, Auto POCT Chemistry Analyzer

> This certificate is valid from 4 June 2019 until 3 June 2022 and remains valid subject to satisfactory surveillance audits. Re certification audit due before 29 March 2022 Issue 1. Certified since 4 June 2019

> > Multiple certificates have been issued for this scope The main certificate is numbered CN19/42078.00

> > > Authorised by



SGS United Kingdom Ltd Rossmore Business Park Ellesmere Port Cheshire CH65 3EN UK t +44 (0)151 350-6666 f +44 (0)151 350-6600 www.sgs.com

HC SGS 13485 2016 0118

Page 1 of 1



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SGSS



REGISTRATION NO. 04719Q10805R0S

CERTIFICATE OF QUALITY MANAGEMENT SYSTEM

This is to certify that the quality management system of

Clindiag Systems Co., Ltd.

Registered Address: No.29 Zhiyuan Road, Jurong Economic DevelopmentZone, Jiangsu Province, P.R.ChinaPostcode: 212400Manufacturing Address: No.29 Zhiyuan Road, Jurong EconomicDevelopment Zone, Jiangsu Province, P.R.China

Has been assessed and conformed to the following standard(s) GB/T19001-2016 idt ISO 9001:2015

The certificate is valid for the following scope:

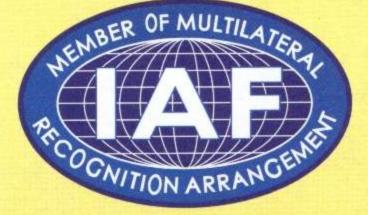
The Design, Development, Production and Service of Semi-Automatic Biochemistry Analyzer, Coagulometer Analyzer, Semi-Automatic Electrolyte Analyzer, Semi-Automatic Microplate Reader, Microplate Washer, Automatic Urine Analyzer And Urine Test Strips, Fully Automatic Biochemistry Analyzer, Fully Automatic Hematology Analyzer,

> Date of issue: July 16, 2019 Date of expiry: July 15, 2024

Director: Jugong Men

BEIJING HUA GUANG CERTIFICATION OF MEDICAL DEVICES CO., LTD.





MANAGEMENT SYSTEM CNAS C047 - Q

Note: The Certificate Information are available on the official website of Certification and Accreditation Administration of the People's Republic of China (www.cnca.gov.cn) or the Website of CMD (www.cmdc.com.cn).



Statement of Compliance

This is to state that Technical Documentation (BS001, Rev 1.0) for Product(s)

Semi-Automatic Biochemistry Analyzer (Model: SA-30A,SA-30B,SA-30C,SA-20,SA-10)

(IVD products other than those covered by Annex II, IVD for self-testing and devices for Performance evaluation according to manufacturer's declaration)

Manufactured by

CLINDIAG SYSTEMS CO., LTD.

29 Zhiyuan Road, Jurong Economic Development Zone, Zhenjiang, Jiangsu Province, P.R.China

Has been assessed as meeting the Essential Requirements and relevant provisions of EC Directive 98/79/EEC for in Vitro Diagnostic Medical Device

For SGS-CSTC Standards Technical Services Co., Ltd. System & Services Certification Division Reference No: CN/SZH8791-1 Valid from Jan.2018 to Jan.2023 Issuel.Certificate since Jan.2018

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch

SGS

SGS Bldg, 11/F, Building B, No. 900, Yishan Road, Xuhui District, Shanghai, China While all due care and skill was exercised in carrying out this assessment, SGS-CSTC accepts responsibility only for proven gross negligence. This certificate relates only to the medical device as described in the technical file reviewed on the date shown. Conformance to all the regulatory requirements is the sole responsibility of the manufacturer including the manufacture and quality control of the products. This is not a legal document and cannot be used as such. This certificate remains the property of SGS-CSTC Standards Technical Services Co., Ltd. to whom it must be returned on





SA-10/20 Chemistry Analyzer





ISO9001:2008 & ISO13485:2003

Headquarters

Add: Steenberg 66, Pollare/Ninove(9401), Belgium Tel: 0032 54 250 936 Fax: 0062 54 243 058 Website: http://www.clindiag.be E-mail: marketing@clindiag.be

U.S. Office

Add: 1351 S. Leavitt Ave, Suite 104 Orange City, Florida 32763 USA Tel: 001 386 456 1235 Fax: 001 407 358 5024 E-mail: info@clindiagusa.com

CE

India Office Add: B-1177-78, G.D. Colony Mayur Vihar Phase-III, Delhi-110096 Ph: 0091 11 22618779 Fax: 0091 11 22618780 E-mail: contact@clindiagindia.com



Features

CLINDIAG

- Easy operation by one button
- End point, kinetic, fixed time, mutistandard, bichromatic, etc.
- Filter wavelengths: 340/405/492/510/546/578/620nm, 2 more open filter positions, others on request.
- With 20 incubating positions.
- Large memory to store 200 test programs and 1000 teating results.
- Excellent Q.C function, Q.C chart can be stored, displayed and printed.
- 3 levels temperature: 25°C, 30°C, 37°C can be selected in flow cell and incubating
- Real time graph can be displayed and printed.

Technical Specifications

Reading cuvette	Direct reading cuvette	Both through cell and direct reading cuvette	
Incubating Positions	20 incubating positions		
	Light source, 6V, 10 W longife halogen lamp		
Photometric System	Filters: 340/405/492/510/546/578/620nm, 2 more open filter positions,		
Photometric oyatem	#Znm pass-hand		
	Wavelength accuracy: ±2nm		
	Measuring range: 0-2 500 O.D.		
Measuring System	Photometric linearity: ±2% from 0 to 2.000 O.D.		
	Photometric accuracy; ±214 from 0 to 2.000 O.D.		
	Drift<0.005 O.D.		
	Carry over ≅ 1%		
Incubator Temperature	25°C, 30°C, 37°C RT		
Control	Precision: ±0.1°C		
Display	Back-illuminated LCD		
Printer	Built-in thermal printer		
Interface	RS-232		
Power Supply	AC 110V 60Hz / 220V 50Hz		
Dimensions	34cmX38cmXI8cm		
Weigh	8.5kg		

CLINDIAG... The Reference for Quality and Service

Certificate

Standard

ISO 9001:2015

Certificate Registr. No.

01 100 6696

Certificate Holder:

BIOSYSTEMS S.A. Costa Brava 30 08030 Barcelona Spain

Scope:

Design, development, manufacture, distribution, servicing of: -Instruments and reagents for clinical diagnostic. -Instruments and reagents for agro-alimentary analysis. Distribution and service of reagents and instruments for veterinary diagnosis.

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity:

The certificate is valid from 2019-12-19 until 2022-12-18. First certification 1996

2019-12-20

TÜV Rheinland Cert GmbH Am Grauen Stein · 51105 Köln

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Annex to certificate

Standard

ISO 9001:2015

Certificate Registr. No. 01 100 6696

No.

Location

Scope

/02

BIOSYSTEMS S.A. Pol. Ind. Can Tapioles naus 7-12-13 08110 Montcada i Reixac Spain Labeling and assembly of reagent. Storage, and shipping of: - Instruments and reagents for diagnosis and reagents for clinical diagnosis.- Instruments and reagents for agrifood analysis.- Instruments and reagents for veterinary diagnosis.

2019-12-20



TÜV Rheinland Cert GmbH Am Grauen Stein · 51105 Köln

Page 1 of 1



Klicken Sie hier, um Text einzugeben.

www.tuv.com



Certificate

The Certification Body of TÜV Rheinland LGA Products GmbH

hereby certifies that the organization

BIOSYSTEMS S.A. Costa Brava 30 08030 Barcelona Spain

has established and applies a quality management system for medical devices for the following scope:

Design and development, manufacture, distribution and servicing of instruments and reagents for clinical diagnostic (see attachment for sites included)

Proof has been furnished that the requirements specified in

EN ISO 13485:2016

are fulfilled. The quality management system is subject to yearly surveillance.

Effective Date:

2020-01-08

Certificate Registration No.: SX 60145545 0001

An audit was performed. Report No.: 28300434 004

This Certificate is valid until: 2022-12-12

DAKKS Deutsche Akkreditierungsstelle D-ZM-14169-01-02

Certification Body

D. Swiatko

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg Tel: +49 221 806-1371 Fax: +49 221 806-3935 e-mail:cert-validity@de.tuv.com http://www.tuv.com/safety

Date 2020-01-08



Doc. 1/1, Rev. 0

TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

Attachment to Certificate Registration No.: Report No.:

SX 60145545 0001 28300434 004

Organization:

BIOSYSTEMS S.A. Costa Brava 30 08030 Barcelona Spain

Scope:

Site included:

Polígono Industrial Can Tapioles Naves 7, 12 y 13 08110 Montcada i Reixac Spain

Activity: Labelling and assembling of reagents, warehousing and shipment of instruments and reagents for clinical diagnostic



TWO20 N 04.0B 6 TUV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval

Date: 2020-01-08

Certification Body



D. Swiatko

CE

KONFORMITÄTSERKLÄRUNG

DECLARATION OF CONFORMITY

Doc#042/05-2014

Wir / We

TECO Medical Instruments Production and Trading GmbH

Name des Herstellers / Manufacturer's name

Dieselstrasse 1, 84088 Neufahrn, Germany

Anschrift / Address

erklären in alleiniger Verantwortung, dass das Produkt – IVD-Blutgerinnungsmessgerät, declare under our own responsibility, that the product – IVD Coagulation analyzer

COAX 1 channel, ref. 85001 COAX 2 channels, ref. 85002 COAX 4 channels, ref. 85004

Bezeichnung, Typ oder Modellname / name, type or model

 allen anwendbaren Anforderungen der folgenden Richtlinien entspricht:
 meets all applicable requirements of:

 1. Richtlinie 98/79/EG über In-vitro Diagnostika klassifiziert gemäß Artikel 9 als: "alle anderen Produkte"
 1. Directive 98/79/EC on In-vitro diagnostic medical devices classified according to article 9 as: "all other products"

2. Richtlinie 2014/30/EU über Elektromagnetische Verträglichkeit

3. Richtlinie 2011/65/EU RoHS II

4. Richtlinie 2014/35/EU Niederspannungsrichtlinie

Das QM-System des Herstellers ist zertifiziert nach:

EN ISO 13485:2016

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Harmonisierungsrechtsvorschriften, beinhaltet jedoch keine Zusicherung von Eigenschaften.

Konformitätsbewertungsverfahren:

Conformity assessment procedure:

3. Directive 2011/65/EU RoHS II

EN ISO 13485:2016

4. Directive 2014/35/EU Low Voltage

Gemäß Anhang III der Richtlinie 98/79/EG

According to Annex III of Directive 98/79/EC

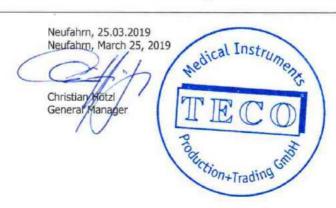
2. Directive 2014/30/EU on electromagnetic Compatibility

The QM-system of the manufacturer is certified for:

This declaration attests the accordance with the mentioned

harmonization rule but does not include a warranty of properties.

Ort und Datum der Unterzeichnung: Place and date of issue:





Semi-automated coagulometers

With 1, 2 or 4 optical channel.



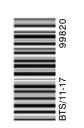
- Prepared for the daily routine and the upcoming requirements.
- High quality in the results.
- Nearly maintenance free.

Specifications

-			
Code	85001 85002 85004		85004
Optical channels	1	2	4
Wavelenght (μm)	620 (red)	405 (UV)	405 (UV)
Global Coag. Tests	PT, APTT, TT, FIB	PT, APTT, TT, FIB	PT, APTT, TT, FIB
Specific Coag. Tests	- individual factors		
Chromogenic Coag. Tests	- AT,PC		
Display	Color Touch screen display		
Dimensions	230 x 140 x 90 mm (l,b,h)		
Interfaces: RS 232 (2x)	Printer, barcode reader		
USB (2x)	Network, Firmware update		

Consumables

Product	Code
1 pack 500 cuvettes	85020



Ginper Group

BioSystems S.A. Costa Brava 30, 08030 Barcelona (Spain) Tel. +34-93 311 08 11 biosystems@biosystems.es www.biosystems.es



COAGULATION LINE





BioSystems

Coagulation is a change of physical state of the blood due to the conversion of a soluble plasma protein, fibrinogen, into a solid gel, fibrin.

The management and control of anticoagulant therapy and the assessment of pre and post surgical states, among others requires a proper evaluation of the coagulation cascade. Several tests help the physician in the diagnosis of alterate coagulation states and management of coagulopathy.

The coagulation reagents have been specifically validated to Biosystems coaqulometers.

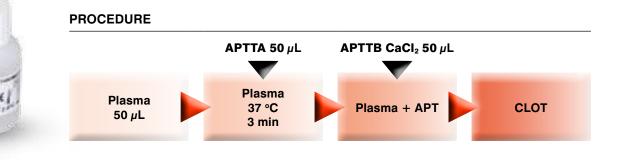
Presentation Code APTT 4x4 mL 61004 **APTT B (CaCl₂)** 4x16 mL 61005 APTT (4x4 mL+1x16 mL) 61009

Activated Partial Thromboplastin Time (APTT)

Principle of the method:

The addition of the phospholipid cephalin to plasma samples in the presence of calcium and an activator induces the formation of the fibrin clot. The method measures the clot formation time.

- Intended use:



Presentation Code 4x5 mL 61001

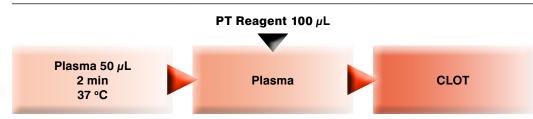
Prothrombin Time (PT)

Principle of the method:

The addition of calcium thromboplastin to plasma induces the formation of the fibrin clot. The method measures the clot formation time.

- Intended use:
- Screening assay used to monitor oral anticoagulant therapy
- It helps detect and diagnose a bleeding disorder

PROCEDURE



Pre	Presentation	
	4x2 mL	61002
B (Imidazol)	4x15 mL	61003

Fibrinogen Clauss

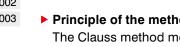
- Principle of the method: proportional to fibrinogen concentration.
- Intended use:

PROCEDURE

Diluted Plasma 1:10 100 µL 2 min 37 °C



Fib Fib B





• Screening assay used in the monitoring of heparin therapy • As part of investigation of a possible bleeding disorder



Presentation Code 4x3 mL 61000

TT

Thrombin Time (TT)

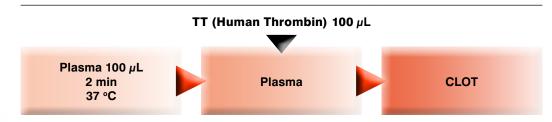
Principle of the method:

Additon of human thrombin to plasma samples induces de formation of fibrin clot. The method measures the clot formation time.

Intended use:

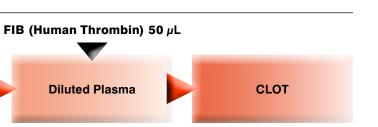
- To evaluate the level and function of fibrinogen
- To detect heparin contamination
- As part of investigation of a bleeding or thrombotic episode

PROCEDURE



The Clauss method measures the rate of conversion of fibrinogen into fibrin in a diluted plasma in the presence of excess of thrombin. The measured clotting time is inversely

• As part of an investigation of a possible bleeding disorder or thrombotic episode • To help evaluate the risk of developing cardiovascular disease



	Presentation	Code
Calibrator	4x1 mL	61006
Control I	4x1 mL	61007
Control II	4x1 mL	61008

Calibrator and Controls

The Coagulation Calibrator is a lyophilized pooled human plasma containing component concentrations suitable for the calibration of measurement procedures.

The Coagulation Control is a lyophilized human plasma with stabilizer suitable for the quality control of the clinical laboratories. The product is intended for intralaboratory quality control purposes only and is supplied with intervals of suggested acceptable values.



CE Declaration of Conformity CE

According to the In Vitro Diagnostic Medical Devices Directive 98/79/EC

Manufacturer:	Dirui Industrial Co., Ltd.
	95 Yunhe Street New& High Tech. Development Zone
	Changchun Jilin 130012 P.R. China
Authorized	Emergo Europe
Representative :	Molenstraat 15 2513 BH The Hague
	The Netherlands
Medical	Product Name: Reagent strips for Urinalysis
Device :	IVDD-Classification: Professional use
	Lot/batches/Serial mber, Type, Periods of manufacture (where applicable) IRUI 1 ITEMS (GLU) DIRUI 1 ITEMS (KET) DIRUI 1 ITEMS (PRO) DIRUI 2 ITEMS (PRO,GLU) DIRUI 2 ITEMS(KET,GLU) DIRUI 3 ITEMS(PRO,PH,GLU) DIRUI 3 ITEMS (PRO, KET,GLU) DIRUI 4 ITEMS (PRO,PH.BLD,GLU) DIRUI 4 ITEMS (PRO,PH,SG,GLU) DIRUI 5 ITEMS (PRO,PH, BLD,KET,GLU) DIRUI 8 ITEMS DIRUI 8 ITEMS DIRUI 9 ITEMS
	DIRULA10 DIRULH10 DIRULE10 DIRULM10 DIRULH10-800
	DIRUI H11 DIRUI H11-MA DIRUI H11-800
	DIRUI H11-800MA DIRUI H12-800MA
	DIRUI H13-Cr DIRUI H14-Ca
	DIRUI H13-Cr (H-800) DIRUI H14-Ca (H-800)
TL 1 .	ed hereby declares that the In Vitro Diagnostic medical device as

The undersigned hereby declares that the In Vitro Diagnostic medical device as specified above conforms with the essential requirements listed in the Annex 1 of the European In Vitro Diagnostic Medical Device Directive 98/79/EC(IVDD)

This declaration of conformity is based on the European In Vitro Diagnostic Medical Device Directive98/79/EC, Annex III.

 Valid Since
 May 9th, 2012
 Representative:

 Changchun, China
 Yu Ge
 OUSTRIAL

 Dirui Industrial Gos:1xte.f科技
 Dirui Industrial Gos:1xte.f科技
 Dirui Industrial Gos:1xte.f科技

 (place and date of issue)
 (name and signature or equivalent marking of authorized person)

认证证书

标准

ISO 9001:2015

证书登记号码

01 100 1832306

证书持有者:

迪瑞医疗科技股份有限公司 统一社会信用代码: 91220101605902656F 注册地址:中华人民共和国吉林省长春市 高新技术产业开发区云河街 95 号 邮编: 130012 经营地址:同上述地址

认证范围:

体外诊断医疗器械的设计开发、生产和销售

证明完成了审核并满足了 ISO 9001:2015 标准的要求。

证书有效期从 2018-05-03 至 2021-05-02。 此证书须经过符合要求的监督审核保持有效。



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Deutsche Akkreditierungsstelle D-ZM-16031-01-00



Certificate

	S	ta	n	la	rd	
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ISO 9001:2015

Certificate Registr. No.

01 100 1832306

Certificate Holder:

Dirui Industrial Co., Ltd. Unified Social Credit Code: 91220101605902656F Registration Address: 95 Yunhe Street, New & High Tech. Development Zone, Changchun City, Jilin Province 130012, P. R. China Operation Address: same as above

Scope:

Design and Development, Manufacture and Distribution of in Vitro Diagnostic Medical Test Systems

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

The certificate is valid from 2018-05-03 until 2021-05-02. It remains valid subject to satisfactory surveillance audits.



www.tuv.com



kkS Deutsche Akkreditierungsstelle D-ZM-16031-01-00





Certificate

The Certification Body of TÜV Rheinland LGA Products GmbH

hereby certifies that the organization

Dirui Industrial Co., Ltd. 95 Yunhe Street New & High Tech. Development Zone Changchun Jilin Province 130012 China

has established and applies a quality management system for medical devices for the following scope:

Design and Development, Manufacture and Distribution of In vitro Diagnostic Medical Test Systems (see attachment for products and additional site included)

Proof has been furnished that the requirements specified in

EN ISO 13485:2016

are fulfilled. The quality management system is subject to yearly surveillance.

Effective Date:

2018-06-26

2020-03-01

Certificate Registration No.: SX 60127937 0001

An audit was performed. Report No.: 15047317 007

This Certificate is valid until:

Certification Body





Date 2018-06-26

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg Tel.: +49 221 806-1371 Fax. +49 221 806-3935 e-mail cert-validity@de tuv.com http://www.tuv.com/safety



Doc. 1/1, Rev. 0

TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

Attachment to Certificate Registration No.: SX 60127937 0001 Report No.: 15047317 007

Organization:

Dirui Industrial Co., Ltd. 95 Yunhe Street New & High Tech. Development Zone Changchun Jilin Province 130012 China

Scope:

Products:

- Urine Test Systems (Reagents, Analyzers, Controls)
- Hematology Test Systems (Reagents, Analyzers, Controls)
- Clinical Chemistry Test Systems (Reagents, Analyzers, Controls)
- Immunochemistry Test Systems (Reagents, Analyzers, Controls)
- Vaginal Infections Test Systems (Reagents, Analyzers, Controls)

Site included:

3333 Yiju Street, New & High Tech. Development Zone, Changchun, 130103 Jilin, China

Design and Development, Manufacture and Distribution of Urine Test Analyzers, Hematology Test Analyzers, Clinical Chemistry Test Analyzers, Immunochemistry Test Analyzers, Vaginal Infections Test Analyzers

Certification Body





Date: 2018-06-26

10/220 al 04.08 - 2 TUV, TUFV and TUV are registered inchements. University and application requires provided



CERTIFICATE of Conformity

Registration No.:

AK 50205311 0001

Report No.:

16800459 001

Holder:

Date

24.06.2011

TO TUE and The sector regions as expanded. Out such and spite address more processes

Dirui Industrial Co., Ltd. 95 Yunhe Street New & High Tech. Development Zone Changchun, Jilin 130012 P.R. China

Product:	<u>Analysis Equipment</u> (Urine Analyzer)
Identification:	Type Designation: H-50 H-100 H-300 H-500
	Serial No.: Engineering Sample
	Remark: Refer to test report 16800459 001 for details.
Tested acc. to:	EN 61326-1:2006 EN 61326-2-6:2006

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.



Certification Body

Sun Lixun

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg



H-100 Urine Analyzer



וחצום

H-100

Urine Analyzer

Product Characteristics:

- Adopting the advanced high luminosity cold light source with 4 -wavelength, which improves the sensitivity, accuracy, specificity, and reduces the interference from ambient light
- Adopting automatic waste handling system, which avoids cross-contamination between samples
- Built-in thermal printer with high speed and low noise; External stylus printer
- Connectable with DIRUI urine sediment analyzer .
- ٠ Users can set an abnormal value flag by themselves
- International, regular and symbol system units display for option •





- - Turkish, German, French

 - Power: 40VA

 - Weight: 3.9kg

DIRUI INDUSTRIAL CO., LTD. 3333 Yiju Street, New&High Tech. Development Zone

Changchun,Jilin 130103,P.R.China Tel:+86(431)81935329 85100409 Fax:+86(431)85172581 85083741 E-mail:dirui@dirui.com.cn Http://www.dirui.com.cn ·Specifications subject to change without notice.



Technical Specification:

• Test items: urobilinogen, bilirubin, ketone, Creatinine, Micro-albumin, blood,

protein, nitrite, leukocytes, glucose, specific gravity, pH and VC, Ca.

• Test wavelength: 525nm, 572nm, 610nm, 660nm

Test principle: Photoelectric colorimetry

Suitable strips: DIRUI H8, H10, H11, H11-MA, Urinalysis strips

Test throughput: 120 strips/h or 60 strips/h optional

Data storage: 5000 patient results

Computer interface: RS-232 port; parallel printer interface

Display: 240×64 dot-matrix LCD

Language: Chinese, English, Russian, Polish, Italian, Spanish, Portuguese,

Power supply: ~100-240V, 50Hz/60Hz

Dimensions: 385mm×337mm×166mm(L×W×H)

Printer: Built-in thermal printer







H-500 Urine Analyzer

Product Characteristics:

- Adopting the advanced high luminosity cold light source with 4 -wavelength, which improves the sensitivity, accuracy, specificity, and reduces the interference from ambient light
- Adopting automatic waste handling equipment, which avoids cross-contamination between samples
- Automatically rectify the test results influenced by non-specificity, pH, specific gravity, and color
- Built-in thermal printer with high speed and low noise; External stylus printer
- Connectable with urine sediment analyzer
- Users can set an abnormal value flag by themselves .
- International, regular and symbol system units available for option

Technical Specification:

- .
- . urinalysis strips
- Test throughput: 514strips/h .
- Data memory: 5000 patient results
- Display: 5.7 " LCD
- Turkish, Hungarian, German, French
- Power: 40VA
- .
- Weight: 7.4kg
- Printer: Built-in thermal printer

DIRUI INDUSTRIAL CO., LTD.

3333 Yiju Street, New& High Tech. Development Zone Changchun,Jilin 130103,P.R.China Tel:+86(431)81935329 85100409 Fax:+86(431)85172581 85083741 E-mail:dirui@dirui.com.cn Http://www.dirui.com.cn ·Specifications subject to change without notice. 2016090

















• Test items: urobilinogen, bilirubin, ketone, blood, protein, nitrite, leukocytes, glucose, specific gravity, pH and VC microalbumin creatinine, calcium • Test wavelength: 525nm, 572nm, 610nm, 660nm Test principle: Photoelectric colorimetry

Suitable strips: DIRUI H8, H10, H11 and H11MA(N) H12, H13-Cr, H14-Ca

Computer interface: RS-232 port; parallel printer interface

• Language: Chinese, English, Russian, Polish, Italian, Spanish, Portuguese,

• Power supply: 100~240VAC, 50Hz/60Hz

Dimensions: 395mm×382mm×304mm





US-Letter / 07.17







CERTIFICATE No. QS6 044751 0135 Rev. 01

Certificate Holder:

Shenzhen Mindray Bio-Medical Electronics Co., Ltd. Mindray Building Keji 12th Road South High-Tech Industrial Park Nanshan 518057 Shenzhen PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Scope of Certificate:

See Page 2 for Overall Scope Statement.

Standard(s): ISO 13485:2016

Regulatory Authority(ies):

Australia TGA, Brazil ANVISA, Health Canada, USA FDA, MHLW / PMDA. See attached for listing of specific regulatory requirements.

The Certification Body of TÜV SÜD America Inc. certifies that the quality management system of the manufacturer listed above has been audited against the stated criteria and found to conform to those criteria for the scope of certification listed. Validity of this certificate can be obtained by visiting the website https://www.tuev-sued.de/product-testing/certificates

TÜV SÜD America Inc. is an MDSAP Recognized Auditing Organization.

DUNS No:	65-467-1304	
Effective Date:	2019-08-26	
Expiry Date:	2021-10-23	

Page 1 of 4 Date of Issue: 2019-11-25

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(Dawn M. Tibodeau) Manager, Certification Body MHS TÜV SÜD America Inc. • 10 Centennial Drive Ste 207 • Peabody, MA 01960 USA • www.tuvsud.com





CERTIFICATE No. QS6 044751 0135 Rev. 01

Regulatory Reguirements:

Audit/Certification Criteria

Australia

Therapeutic Goods (Medical Devices) Regulations 2002 - Schedule 3, Part 1

Brazil

- RDC ANVISA n. 16/2013

- RDC ANVISA n. 23/2012
- RDC ANVISA n. 67/2009

Canada

- Medical Device Regulations SOR/98-282, Part 1

United States

- 21 CFR Part 803 - 21 CFR Part 806 - 21 CFR Part 807
- 21 CFR Part 820

Japan

MHLW Ministerial Ordinance 169, Article 4 to Article 68
 PMD Act

Overall Scope Statement:

Design and Development, Production and Distribution of Medical Electronic Equipment (including Patient Monitor and Accessories (NIBP House, NIBP Cuff, Sensor Cables including SPO2 Cable and Temperature Cable, SPO2 Sensor, ECG Cables and Leadsets, Temperature Probe, Probe Cover), Vital Signs Monitor, Center Monitoring System, Telemetry Monitoring System, Pulse Oximeter, Defibrillator / Monitor and Accessories, Electrocardiograph, Anesthesia Machine and Accessories (Vaporizer), Ventilator, Ultrasonic Diagnostic Equipment, Ultrasonic Transducer, Hematology Analyzer, Clinical Chemistry Analyzer, Microplate Reader, Microplate Washer for In-Vitro Diagnostic Use, Chemiluminescence Immunossay Analyzer, Flow Cytometer, Auto Sample Processing System, Auto Slide Maker and Stainer;) Reagents for Hematology Analyzer, Reagents for Clinical Chemistry Analyzer, Chemiluminescence Immunoassay Reagents, Chemiluminescence Immunoassav Calibrators and Controls; Disposable Anesthesia Mask, Reusable Anesthesia Mask, Respiratory Mask, Disposable Breathing Circuit, Reusable Breathing Circuit, Heat and Moisture Exchanger, Filter, **Breathing Bag**

Page 2 of 4 Date of Issue: 2019-11-25

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(Dawn M. Tibodeau) Manager, Certification Body MHS TÜV SÜD America Inc. • 10 Centennial Drive Ste 207 • Peabody, MA 01960 USA • www.tuvsud.com





CERTIFICATE No. QS6 044751 0135 Rev. 01

Facility(ies):

Shenzhen Mindray Bio-Medical Electronics Co., Ltd. Mindray Building, Keji 12th Road South, High-Tech Industrial Park, Nanshan, 518057 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

Shenzhen Mindray Bio-Medical Electronics Co., Ltd. 1203 Nanhuan Avenue, Guangming District, 518106 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

Facility Scopes:

Shenzhen Mindray Bio-Medical Electronics Co., Ltd. Mindray Building, Keji 12th Road South, High-Tech Industrial Park Nanshan, 518057, Shenzhen, PEOPLE'S REPUBLIC OF CHINA

Design and Development, Production and Distribution of Medical Electronic Equipment (including Patient Monitor and Accessories (NIBP House, NIBP Cuff, Sensor Cables including SPO2 Cable and Temperature Cable, SPO2 Sensor, ECG Cables and Leadsets, Temperature Probe, Probe Cover), Vital Signs Monitor, Center Monitoring System, Telemetry Monitoring System, Pulse Oximeter, Defibrillator / Monitor and Accessories, Electrocardiograph, Anesthesia Machine and Accessories (Vaporizer), Ventilator, Ultrasonic Diagnostic Equipment, Ultrasonic Transducer, Hematology Analyzer, Clinical Chemistry Analyzer, Microplate Reader, Microplate Washer for In-Vitro Diagnostic Use, Chemiluminescence Immunossay Analyzer, Flow Cytometer, Auto Sample Processing System, Auto Slide Maker and Stainer;) Reagents for Hematology Analyzer, Reagents for Clinical Chemistry Analyzer, Chemiluminescence Immunoassay Reagents, Chemiluminescence Immunoassav Calibrators and Controls; Disposable Anesthesia Mask, Reusable Anesthesia Mask, Respiratory Mask, Disposable Breathing Circuit, Reusable Breathing Circuit, Heat and Moisture Exchanger, Filter, **Breathing Bag** DUNS No: 65-467-1304

Page 3 of 4 Date of Issue: 2019-11-25

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(Dawn M. Tibodeau) Manager, Certification Body MHS TÜV SÜD America Inc. • 10 Centennial Drive Ste 207 • Peabody, MA 01960 USA • www.tuvsud.com





CERTIFICATE

No. QS6 044751 0135 Rev. 01

Shenzhen Mindray Bio-Medical Electronics Co., Ltd. 1203 Nanhuan Avenue, Guangming District, 518106, Shenzhen PEOPLE'S REPUBLIC OF CHINA

Production of Medical Electronic Equipment (including Patient Monitor and Accessories (NIBP House, NIBP Cuff, Sensor Cables including SPO2 Cable and Temperature Cable, SPO2 Sensor, ECG Cables and Leadsets, Temperature Probe, Probe Cover), Vital Signs Monitor, Center Monitoring System, Telemetry Monitoring System, Pulse Oximeter, Defibrillator / Monitor and Accessories, Electrocardiograph, Anesthesia Machine and Accessories (Vaporizer), Ventilator, Ultrasonic Diagnostic Equipment, Ultrasonic Transducer, Hematology Analyzer, Clinical Chemistry Analyzer, Microplate Reader, Microplate Washer for In-Vitro Diagnostic Use, Chemiluminescence Immunossay Analyzer, Flow Cytometer, Auto Sample Processing System, Auto Slide Maker and Stainer;) Reagents for Hematology Analyzer, Reagents for Clinical Chemistry Analyzer, Chemiluminescence Immunoassay Reagents, Chemiluminescence Immunoassav Calibrators and Controls; Disposable Anesthesia Mask, Reusable Anesthesia Mask, Respiratory Mask, Disposable Breathing Circuit, Reusable Breathing Circuit, Heat and Moisture Exchanger, Filter, Breathing Bag DUNS No: 54-459-5743

Page 4 of 4 Date of Issue: 2019-11-25

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(Dawn M. Tibodeau) Manager, Certification Body MHS TÜV SÜD America Inc. • 10 Centennial Drive Ste 207 • Peabody, MA 01960 USA • www.tuvsud.com

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CERTIFICATE

No. QS5 044751 0140 Rev. 02

Certificate Holder:

Shenzhen Mindray Bio-Medical Electronics Co., Ltd. Mindray Building Keji 12th Road South High-Tech Industrial Park Nanshan 518057 Shenzhen PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Scope of Certificate:

See Page 2 for Overall Scope Statement.

Standard(s):

ISO 9001:2015

The Certification Body of TÜV SÜD America Inc. certifies that the company mentioned above has established and is maintaining a quality management system that meets the requirements of the listed standards.

Report No.:	SH2005501
Effective Date:	2020-08-12
Expirv Date:	2023-06-30

Page 1 of 4 Date of Issue: 2020-08-20





CERTIFICATE

No. QS5 044751 0140 Rev. 02

Overall Scope Statement

Design and Development, Production and Distribution of Medical Electronic Equipment (including Patient Monitor and Accessories, Vital Signs Monitor, Center Monitoring System, Telemetry Monitoring System, Pulse Oximeter, Temperature Probe, Flow Sensor, Ambulatory Blood Pressure Monitor, Defibrillator / Monitor and Accessories, Electrocardiograph, Anesthesia Machine and Accessories, Ventilator, Air Compressor, Endoscope Camera System, Ultrasonic Diagnostic Equipment and Accessories, Digital Radiography System, Radiography System, Hematology Analyzer, Clinical Chemistry Analyzer, Urine Analyzer, Microplate Reader, Microplate Washer for In-Vitro Diagnostic Use. Chemiluminescence Immunossav Analyzer. Flow Cytometer, (Auto) Sample Processing System, Auto Slide Maker and Stainer, Glycohemoglobin Analyzer, Specific Protein Analyzer), Reagents for Hematology Analyzer, Reagents for Clinical **Chemistry Analyzer, Chemiluminescence** Immunoassay Reagents, Chemiluminescence Immunoassay Calibrators and Controls, Reagents for Flow Cytometer, Reagents for Glycohemoglobin Analyzer, Calibrators and Controls for Glycohemoglobin Analyzer, Disposable Anesthesia Mask, Reusable Anesthesia Mask, Respiratory Mask, **Disposable Breathing Circuit, Reusable Breathing** Circuit, Heat and Moisture Exchanger, Filter, **Breathing Bag**

Page 2 of 4 Date of Issue: 2020-08-20





CERTIFICATE No. QS5 044751 0140 Rev. 02

Facility(ies):

Shenzhen Mindray Bio-Medical Electronics Co., Ltd. Mindray Building, Keji 12th Road South, High-Tech Industrial Park, Nanshan, 518057, Shenzhen, PEOPLE'S REPUBLIC OF CHINA

Facility Scopes:

Design and Development, Production and Distribution of Medical Electronic Equipment (including Patient Monitor and Accessories, Vital Signs Monitor, Center Monitoring System, Telemetry Monitoring System, Pulse Oximeter, Temperature Probe, Flow Sensor, Ambulatory Blood Pressure Monitor, Defibrillator / Monitor and Accessories, Electrocardiograph, Anesthesia Machine and Accessories, Ventilator, Air Compressor, Endoscope Camera System, Ultrasonic Diagnostic Equipment and Accessories, Digital Radiography System, Radiography System, Hematology Analyzer, Clinical Chemistry Analyzer, Urine Analyzer, Microplate Reader, Microplate Washer for In-Vitro Diagnostic Use, Chemiluminescence Immunossay Analyzer, Flow Cytometer, (Auto) Sample Processing System, Auto Slide Maker and Stainer, Glycohemoglobin Analyzer, Specific Protein Analyzer), Reagents for Hematology Analyzer, Reagents for Clinical Chemistry Analyzer, Chemiluminescence Immunoassay Reagents, Chemiluminescence Immunoassay Calibrators and Controls, Reagents for Flow Cytometer, Reagents for Glycohemoglobin Analyzer, Calibrators and Controls for Glycohemoglobin Analyzer, Disposable Anesthesia Mask, Reusable Anesthesia Mask, Respiratory Mask, Disposable Breathing Circuit, Reusable Breathing Circuit, Heat and Moisture Exchanger, Filter, Breathing Bag

Page 3 of 4 Date of Issue: 2020-08-20





CERTIFICATE No. QS5 044751 0140 Rev. 02

Facility(ies)

Shenzhen Mindray Bio-Medical Electronics Co., Ltd. 1203 Nanhuan Avenue, Guangming District, 518106 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

Facility Scopes:

Design and Development, Production and Distribution of Medical Electronic Equipment (including Patient Monitor and Accessories, Vital Signs Monitor, Center Monitoring System, Telemetry Monitoring System, Pulse Oximeter, Temperature Probe, Flow Sensor, Ambulatory Blood Pressure Monitor, Defibrillator / Monitor and Accessories, Electrocardiograph, Anesthesia Machine and Accessories, Ventilator, Air Compressor, Endoscope Camera System, Ultrasonic Diagnostic Equipment and Accessories, Digital Radiography System, Radiography System, Hematology Analyzer, Clinical Chemistry Analyzer, Urine Analyzer, Microplate Reader, Microplate Washer for In-Vitro Diagnostic Use, Chemiluminescence Immunossay Analyzer, Flow Cytometer, (Auto) Sample Processing System, Auto Slide Maker and Stainer. Glycohemoglobin Analyzer, Specific Protein Analyzer), Reagents for Hematology Analyzer, Reagents for Clinical Chemistry Analyzer, Chemiluminescence Immunoassay Reagents, Chemiluminescence Immunoassay Calibrators and Controls, Reagents for Flow Cytometer, Reagents for Glycohemoglobin Analyzer, Calibrators and Controls for Glycohemoglobin Analyzer, Disposable Anesthesia Mask, Reusable Anesthesia Mask, Respiratory Mask, Disposable Breathing Circuit, Reusable Breathing Circuit, Heat and Moisture Exchanger, Filter, Breathing Bag

Page 4 of 4 Date of Issue: 2020-08-20

Declaration of Conformity CE

Shenzhen Mindray Bio-Medical Electronics Co., Ltd.

Manufacturer:

Mindray Building, Keji 12th Road South, Hi-tech Industrial

Shanghai International Holding Corp. GmbH (Europe)

Park, Nanshan, Shenzhen, 518057, P. R. China

EC-Representative:

Product:

Model:

BC-5000

Eiffestraße 80

Including reagents as following: M-52D DILUENT M-52DIFF LYSE M-52LH LYSE PROBE CLEANSER

20537 Hamburg, Germany

Auto Hematology Analyzer

Classification:

The device not in IVDD annex II and not for self testing/performance evaluation

Conformity Assessment Route: IVDD Annex III(excluding Section 6)

We herewith declare that the above mentioned products meet the provisions of the Directive 98/79/EC on In Vitro Diagnostic Medical Devices. All supporting documentations are retained under the premises of the manufacturer.

Standards Applied:

List of (harmonized) standards for which documented evidence for compliance can be provided as attachment.

Start of CE-Marking: 2013-9-26 Place, Date of Issue: Shenzhen, 2013-9-26

Signature:

Name of Authorized Signatory: Mr.tan ChuanBin

Position Held in Company:

Manager, Technical Regulation

Declaration of Conformity CE

Manufacturer: Shenzhen Mindray Bio-Medical Electronics Co., Ltd. Mindray Building, Keji 12th Road South, Hi-tech Industrial Park, Nanshan, Shenzhen, 518057, P. R. China **EC-Representative:** Shanghai International Holding Corp. GmbH (Europe) Eiffestraße 80 20537 Hamburg, Germany Product: Auto Hematology Analyzer Model: BC-5150 Including reagents as following: M-52D DILUENT M-52DIFF LYSE M-52LH LYSE PROBE CLEANSER **Classification:** The device not in IVDD annex II and not for self testing/performance evaluation Conformity Assessment Route: VDD Annex III(excluding Section 6)

We herewith declare that the above mentioned products meet the provisions of the Directive 98/79/EC on In Vitro Diagnostic Medical Devices. All supporting documentations are retained under the premises of the manufacturer.

Standards Applied:

List of (harmonized) standards for which documented evidence for compliance can be provided as attachment.

Start of CE-Marking: 2013-9-26

Place, Date of Issue: Shenzhen, 2013-9-26

Signature:

Name of Authorized Signatory:Mr.tan ChuanBinPosition Held in Company:Manager ,Technical Regulation

Applied Standards List

Product:	Auto Hematology Analyzer
	BC-5150、BC-5000
	Including reagents as following:
	M-52D DILUENT
	M-52DIFF LYSE
	M-52LH LYSE
	PROBE CLEANSER

Applied Standards:

Applied Standards:	
EN ISO 18113-1:2009	In vitro diagnostic medical devices —Information supplied by the
	manufacturer(labelling) Part 1: Terms, definitions and general requirements
ENISO 18113-2:2009	I in vitro diagnostic medical devices - information supplied by the manufacturer
	(labelling) - Part 2: in vitro diagnostic reagents for professional use
EN ISO 18113-3:2009	In vitro diagnostic medical devices - Information supplied by the
	manufacturer((labeling.) Part 3: In vitro diagnostic instruments for professional use
EN ISO 15223-1:2012	Medical devices - Symbols to be used with medical device labels,
хн. 1 - х	labelling and information to be supplied —Part 1: General requirements
EN 13612: 2002	Performance evaluation of in vitro diagnostic medical devices
ISO 14971:2012	Medical devices – Application of risk management to medical devices
EN 61010-1:2001	Safety requirements for electrical equipment for measurement, control, and
	laboratory use Part 1: General requirement
EN 61010-2-081:2002+A1:	Safety requirements for electrical equipment for measurement, control and
2003+A1: 2003	laboratory use - Part 2-081: Particular requirements for automatic and
	semi-automatic laboratory equipment for analysis and other purposes
EN 61010-2-101: 2002	Safety requirements for electrical equipment for measurement, control, and
	laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD)
	medical equipment

Declaration of Conform	mity V 1.0
IEC 61010-2-010: 2005	Safety requirements for electrical equipment for measurement, control and
	laboratory use - Part 2-010: Particular requirements for laboratory equipment
	for the heating of materials
EN 61326-1:2006	Electrical equipment for measurement, control and laboratory use - EMC
	requirements - Part 1: General requirements
EN 61326-2-6:2006	Electrical equipment for measurement, control and laboratory use - EMC
	requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD)
	medical equipment
EN 62304:2008	Medical device software- Software life cycle processes
EN 62366:2008	Medical devices — Application of usability engineering to medical devices
EN 13640: 2002	Stability testing of in vitro diagnostic medical devices

CE

Declaration of Conformity

Manufacturer:	Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
	Mindray Building, Keji 12th Road South, Hi-tech industrial
	Park, Nanshan, Shenzhen, 518057, P. R. China
EC-Representative:	Shanghai International Holding Corp. GmbH (Europe)
	Eiffestraße 80
	20537 Hamburg, Germany
Product:	Auto Hematology Analyzer
Model:	BC-20s
Model:	BC-20s Including reagents as following:
Model:	
Model:	Including reagents as following:
Model:	Including reagents as following: M-30D DILUENT
Model:	Including reagents as following: M-30D DILUENT M-30CFL LYSE
Model: Classification:	Including reagents as following: M-30D DILUENT M-30CFL LYSE
	Including reagents as following: M-30D DILUENT M-30CFL LYSE PROBE CLEANSER

Conformity Assessment Route: IVDD Annex III(excluding Section 6)

We herewith declare that the above mentioned products meet the provisions of the Directive 98/79/EC on In Vitro Diagnostic Medical Devices. All supporting documentations are retained under the premises of the manufacturer.

Standards Applied:

List of (harmonized) standards for which documented evidence for compliance can be provided as attachment.

Start of CE-Marking: 2015-3-31 Place, Date of Issue: Shenzhen, 2015-3-31

Signature:

Name of Authorized Signatory: Mr.tan ChuanBin

Position Held in Company:

Manager ,Technical Regulation

CE

Declaration of Conformity

Manufacturer:	Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
	Mindray Building, Keji 12th Road South, Hi-tech Industrial
	Park, Nanshan, Shenzhen, 518057, P. R. China
EC-Representative:	Shanghai International Holding Corp. GmbH (Europe)
	Eiffestraße 80
	20537 Hamburg, Germany
Product:	Auto Hematology Analyzer
Model:	BC-30s
Model:	BC-30s Including reagents as following:
Model:	
Model:	Including reagents as following:
Model:	Including reagents as following: M-30D DILUENT
	Including reagents as following: M-30D DILUENT M-30CFL LYSE
Model: Classification:	Including reagents as following: M-30D DILUENT M-30CFL LYSE
	Including reagents as following: M-30D DILUENT M-30CFL LYSE PROBE CLEANSER

Conformity Assessment Route: IVDD Annex III(excluding Section 6)

We herewith declare that the above mentioned products meet the provisions of the Directive 98/79/EC on In Vitro Diagnostic Medical Devices. All supporting documentations are retained under the premises of the manufacturer.

Standards Applied:

List of (harmonized) standards for which documented evidence for compliance can be provided as attachment.

Start of CE-Marking: 2015-3-31

Place, Date of Issue: Shenzhen, 2015-3-31

Signature:

Name of Authorized Signatory:Mr.tan ChuanBinPosition Held in Company:Manager ,Technical Regulation

Declaration of Conformity V 1.0 **Applied Standards List Product:** Auto Hematology Analyzer BC-20s、BC-30s Including reagents as following: M-30D DILUENT M-30CFL LYSE PROBE CLEANSER **Applied Standards:** EN ISO 18113-1:2011 In vitro diagnostic medical devices —Information supplied by the manufacturer(labelling) Part 1: Terms, definitions and general requirements ENISO 18113-2:2011 I in vitro diagnostic medical devices - Information supplied by the manufacturer (labelling) - Part 2: In vitro diagnostic reagents for professional use EN ISO 18113-3:2011 In vitro diagnostic medical devices - Information supplied by the manufacturer(labeling) Part 3: In vitro diagnostic instruments for professional use EN ISO 15223-1:2012 Medical devices --- Symbols to be used with medical device labels, labelling and information to be supplied --Part 1: General requirements EN 13612: 2002 Performance evaluation of in vitro diagnostic medical devices Medical devices - Application of risk management to medical devices ISO 14971:2012 EN 61010-1:2001 Safety requirements for electrical equipment for measurement, control, and laboratory use Part 1: General requirement EN 61010-2-081:2002+A1: Safety requirements for electrical equipment for measurement, control and 2003+A1: 2003 laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes EN 61010-2-101: 2002 Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment IEC 61010-2-010: 2005 Safety requirements for electrical equipment for measurement, control and

Declaration of Conformity V 1.0		
	laboratory use - Part 2-010: Particular requirements for laboratory equipment	
	for the heating of materials	
EN 61326-1:2006	Electrical equipment for measurement, control and laboratory use - EMC	
	requirements - Part 1: General requirements	
EN 61326-2-6:2006	Electrical equipment for measurement, control and laboratory use - EMC	
	requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD)	
	medical equipment	
EN 62304:2006	Medical device software- Software life cycle processes	
EN 62366:2008	Medical devices — Application of usability engineering to medical devices	
EN 13640: 2002	Stability testing of in vitro diagnostic medical devices	
EN ISO13485:2012	Medical devices - Quality management systems - Requirements for regulatory purposes	

Declaration of Conformity V1.0

Declaration of Conformity CE

Shenzhen Mindray Bio-Medical Electronics Co., Ltd. Manufacturer: Mindray Building, Keji 12th Road South, Hi-tech Industrial Park, Nanshan, Shenzhen, 518057, P. R. China Shanghai International Holding Corp. GmbH (Europe) **EC-Representative:** Eiffestraße 80 20537 Hamburg, Germany Product: Auto Hematology Analyzer Model: BC-5150 Including reagents as following: M-52D DILUENT M-52DIFF LYSE M-52LH LYSE

Classification: The device not in IVDD annex II and not for self testing/performance evaluation

PROBE CLEANSER

Conformity Assessment Route: IVDD Annex III(excluding Section 6)

We herewith declare that the above mentioned products meet the provisions of the Directive 98/79/EC on In Vitro Diagnostic Medical Devices. All supporting documentations are retained under the premises of the manufacturer.

Standards Applied:

List of (harmonized) standards for which documented evidence for compliance can be provided as attachment.

Start of CE-Marking: 2013-9-26

Place, Date of Issue: Shenzhen, 2013-9-26

Signature:

Name of Authorized Signatory:Mr.tan ChuanBinPosition Held in Company:Manager ,Technical Regulation

Declaration of Conformity V 1.0

Applied Standards List

Product:

Auto Hematology Analyzer BC-5150、BC-5000 Including reagents as following: M-52D DILUENT M-52DIFF LYSE M-52LH LYSE PROBE CLEANSER

Applied Standards:

	The second se
EN ISO 18113-1:2009	In vitro diagnostic medical devices -Information supplied by the
	manufacturer(labelling) Part 1: Terms, definitions and general requirements
ENISO 18113-2:2009	I in vitro diagnostic medical devices - Information supplied by the manufacturer
	(labelling) - Part 2: In vitro diagnostic reagents for professional use
EN ISO 18113-3:2009	In vitro diagnostic medical devices - Information supplied by the
	manufacturer(labeling) Part 3: In vitro diagnostic instruments for professional use
EN ISO 15223-1:2012	Medical devices - Symbols to be used with medical device labels,
	labelling and information to be suppliedPart 1: General requirements
EN 13612: 2002	Performance evaluation of in vitro diagnostic medical devices
ISO 14971:2012	Medical devices - Application of risk management to medical devices
EN 61010-1:2001	Safety requirements for electrical equipment for measurement, control, and
	laboratory use Part 1: General requirement
EN 61010-2-081:2002+A1:	Safety requirements for electrical equipment for measurement, control and
2003+A1: 2003	laboratory use - Part 2-081: Particular requirements for automatic and
	semi-automatic laboratory equipment for analysis and other purposes
EN 61010-2-101: 2002	Safety requirements for electrical equipment for measurement, control, and
	laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD)
	medical equipment

IEC 61010-2-010: 2005	ity V 1.0 Safety requirements for electrical equipment for measurement, control and
	laboratory use - Part 2-010: Particular requirements for laboratory equipment
	for the heating of materials
EN 61326-1:2006	Electrical equipment for measurement, control and laboratory use - EMC
	requirements - Part 1: General requirements
EN 61326-2-6:2006	Electrical equipment for measurement, control and laboratory use - EMC
	requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD)
	medical equipment
EN 62304:2008	Medical device software- Software life cycle processes
EN 62366:2008	Medical devices — Application of usability engineering to medical devices
EN 13640: 2002	Stabillty testing of in vitro diagnostic medical devices

Declaration of Conformity (1.0)

Declaration of Conformity CE

Manufacturer:	Shenzhen Mindray Bio-Medical Electronics Co., Ltd. Mindray Building, Keji 12th Road South, Hi-tech Industrial Park, Nanshan, Shenzhen, 518057, P. R. China
EC-Representative:	Shanghai International Holding Corp. GmbH (Europe) Eiffestraße 80 20537 Hamburg, Germany
Product:	Chemistry Analyzer
Model:	BS-240
Consumables:	Reaction cuvette
	Mindray reagent bottles
	CD80 detergent
Optional Module:	ISE unit
	bar code reader(optional)

The device not in IVDD annex II and not for self Classification: testing/performance evaluation

Conformity Assessment Route: IVDD Annex III (not includes Section 6)

We herewith declare that the above mentioned products meet the provisions of the Directive 98/79/EC on In Vitro Diagnostic Medical Devices. All supporting documentations are retained under the premises of the manufacturer.

Standards Applied:

List of (harmonized) standards for which documented evidence for compliance can be provided as attachment.

Start of CE-Marking: 2016-03-29

Place, Date of Issue:

Shenzhen, 2016-03-29

Signature:

Fry 4

Name of Authorized Signatory: Mr. Wang XinBing Position Held in Company:

Manager of Technical Regulation



证书编号: 04717Q10183R5M

质量管理体系认证证书

兹证明

北京普利生仪器有限公司

(统一社会信用代码: 91110108723969376Y)

注册地址:北京市海淀区上地群英科技园5号楼二层东 邮编:100085 生产地址:北京市海淀区上地信息产业基地创业路8号群英科技园5号楼2 层东侧;北京市海淀区上地创业路8号5号楼4层5-6号西侧

质量管理体系符合:

GB/T 19001-2008 idt ISO 9001:2008

体系覆盖:

全自动凝血分析仪、全自动红细胞沉降率测定仪、半自动凝血 分析仪、全自动血液流变仪、半自动血液流变仪、活化部分凝血活酶 时间(APTT)测定试剂盒(凝固法)、纤维蛋白原(FIB)测定试剂盒(凝 固法)、凝血酶原时间(PT)测定试剂盒(凝固法)、凝血酶时间(TT)测 定试剂盒(凝固法)、血液流变仪质控物的设计开发、生产和服务。

> 颁证日期: 2017 年 05 月 26 日 有效期至: 2018 年 09 月 15 日

总经理:

北京国医械华光认证有限公司





中国认可 国际互认 管理体系 MANAGEMENT SYSTEM CNAS C047-M

注:认证组织需通过年度监督审核后,此证书方为有效。本证书信息可在国家认证认可监督管理委员会官方网站(www.enca.gov.en)或北京国医械华光



REGISTRATION NO. 04717Q10183R5M

CERTIFICATE

OF QUALITY MANAGEMENT SYSTEM

This is to certify that the quality management system of

Beijing Precil Instrument Co., Ltd.

Registered Address: 2F East 5 Building, Qunying kejiyuan, Shangdi Information Base, Haidian District, Beijing 100085, P. R. China Manufacturing Address: East of 2F,Building No.5,Qunying Science and Technology Park,No.8 Chuangye Road, Shangdi Information Industry Base, Haidian District, Beijing, China; No. 5-6 West of 4F, Building No.5, No.8 Shangdi Chuangye Road, Haidian District, Beijing,China

Has been assessed and conformed to the following standard(s) GB/T 19001-2008 idt ISO 9001:2008

The certificate is valid for the following scope:

The Design, Development, Production and Service of Auto Coagulation Analyzer, Auto Dynamic Erythrocyte Sedimentation Rate (ESR) Monitor, Semi-Auto Coagulation Analyzer, Auto Blood Rheometer, Semi-Auto Blood Rheometer, Activated Partial Thromboplastin Time Kit(Clotting assay), Fibrinogen Kit(Clotting assay), Prothrombin Time Kit(Clotting assay), Thrombin Time Kit(Clotting assay), Quality Control Substance for Auto Blood Rheometer.

> Date of issue: May 26, 2017 Date of expiry: September 15, 2018

General Manager:



BEIJING HUA GUANG CERTIFICATION OF MEDICAL DEVICES CO., LTD.





中国认可 国际互认 管理体系 MANAGEMENT SYSTEM CNAS C047-M

Note: This certificate will not be valid until the organization has been approved in the annual audits. The certificate information are available on the website of the certification and accreditation administration of the People's Republic of China (www.cnca.gov.cn) or the website of CMD (www.cmdc.com.cn). Address: 5th floor of Zhong Lian building, No.jia88, An Ding Men Wai street, Dongcheng district, Beijing,100011, P.R. China Telephone: 010-62351993



证书编号: 04717Q10000190

医疗器械

质量管理体系认证证书

兹证明

北京普利生仪器有限公司

(统一社会信用代码: 91110108723969376Y)

注册地址:北京市海淀区上地群英科技园5号楼二层东 邮编:100085 生产地址:北京市海淀区上地信息产业基地创业路8号群英科技园5号楼2 层东侧;北京市海淀区上地创业路8号5号楼4层5-6号西侧

质量管理体系符合:

YY/T 0287-2003 idt ISO 13485:2003

体系覆盖:

全自动凝血分析仪、全自动红细胞沉降率测定仪、半自动凝血 分析仪、全自动血液流变仪、半自动血液流变仪、活化部分凝血活酶 时间(APTT)测定试剂盒(凝固法)、纤维蛋白原(FIB)测定试剂盒(凝 固法)、凝血酶原时间(PT)测定试剂盒(凝固法)、凝血酶时间(TT)测 定试剂盒(凝固法)、血液流变仪质控物的设计开发、生产和服务。

> 颁证日期: 2017年05月26日 有效期至: 2019年03月01日

总经理:

北京国医槭华光认证有限公司

注:认证组织需通过年度监督审核后,此证书方为有效。本证书信息可在国家认证认可监督管理委员会官方网站(www.cnca.gov.cn)或北京国医械华光 认证有限公司网站(www.cmdc.com.cn)上查询。 地址:北京市东城区安定门外大街甲 88 号中联大厦第5层 邮编:100011 电话:010-62351993



REGISTRATION NO. 04717Q10000190

CERTIFICATE OF QUALITY MANAGEMENT SYSTEM FOR MEDICAL DEVICES

This is to certify that the quality management system of

Beijing Precil Instrument Co., Ltd.

Registered Address: 2F East 5 Building, Qunying kejiyuan, Shangdi Information Base, Haidian District, Beijing 100085, P. R. China

Manufacturing Address: East of 2F,Building No.5,Qunying Science and Technology Park,No.8 Chuangye Road, Shangdi Information Industry Base, Haidian District, Beijing, China; No. 5-6 West of 4F, Building No.5, No.8 Shangdi Chuangye Road, Haidian District, Beijing,China

Has been assessed and conformed to the following standard(s) YY/T 0287-2003 idt ISO 13485:2003

The certificate is valid for the following scope:

The Design, Development, Production and Service of Auto Coagulation Analyzer, Auto Dynamic Erythrocyte Sedimentation Rate (ESR) Monitor, Semi-Auto Coagulation Analyzer, Auto Blood Rheometer, Semi-Auto Blood Rheometer, Activated Partial Thromboplastin Time Kit(Clotting assay), Fibrinogen Kit(Clotting assay), Prothrombin Time Kit(Clotting assay), Thrombin Time Kit(Clotting assay), Quality Control Substance for Auto Blood Rheometer.

> Date of issue: May 26, 2017 Date of expiry: March 01, 2019

General Manager:

BEIJING HUA GUANG CERTIFICATION OF MEDICAL DEVICES CO., LTD.

Note: This certificate will not be valid until the organization has been approved in the annual audits. The certificate information are available on the website of the certification and accreditation administration of the People's Republic of China (www.cnca.gov.cn) or the website of CMD (www.cmdc.com.cn). Address: 5th floor of Zhong Lian building, No.jia88, An Ding Men Wai street, Dongcheng district, Beijing,100011, P.R. China Telephone: 010-62351993

Declaration of Conformity

Manufacturer:	Beijing Precil Instrument Co., Ltd. Room 203-204, 2F,Building 2,No.2, Tongji Middle Road, Beijing Economic & Technological Development Area, Beijing,100176,China
EC-Representative:	Shanghai International Holding Corp. GmbH (Europe) Eiffestrasse 80, 20537 Hamburg, Germany
Product:	Auto Dynamic Erythrocyte Sedimentation Rate (ESR) Monitor
Model:	LBY-XC20B、LBY-XC40、LBY-XC40B
Classification:	Others(Not listed in the Annex II, Directive 98/79/EC)

Conformity assessment route: Annex III(Except 6), Directive 98/79/EC

We herewith declare that the above-mentioned products meet the previsions of the following EC Council Directives 98/79/EC for in-vitro-diagnostics. All supporting documentation is retained under the premises of the manufacturer.

Standard applied:

List of(harmonized) standards for which documented evidence for compliance can be provided as attachment.

Start of CE-Marking: 2017-12-01

Place, Date:

Beijing, 2017-12-01

Signature:

Name of Authorized Signatory: Zhang Yaohui Position Held in Company: Management Representative

PLS-JS-01-D34-65-1001 (2016) Declaration of Conformity-V.01

page1

Applied Standards List

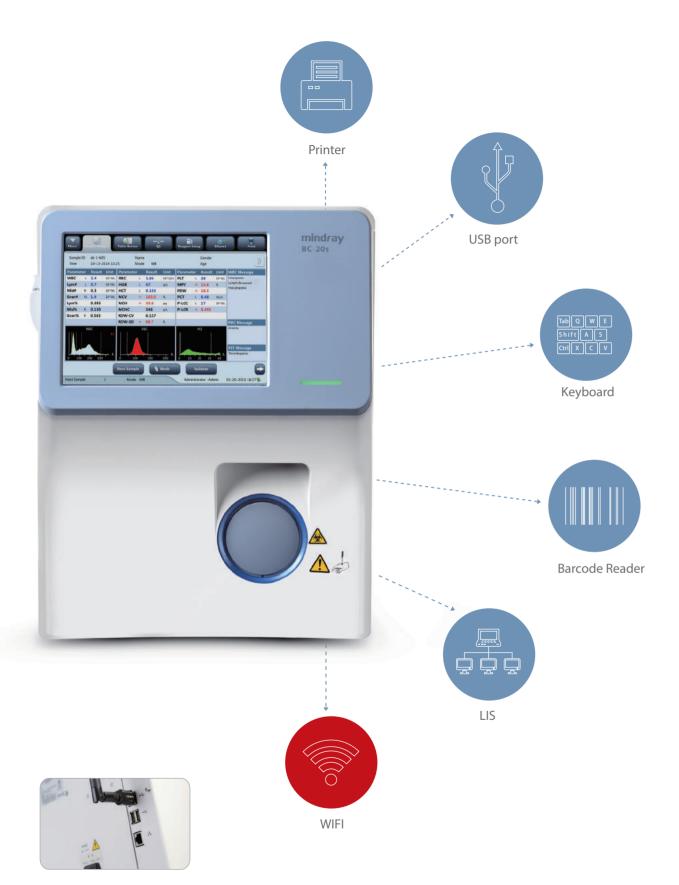
Product: Auto Dynamic Erythrocyte Sedimentation Rate (ESR) Monitor

Applied Standards:

EN 980:2008	Graphical symbols for use in the labeling of medical devices
EN ISO 13485:2012	Medical devices - Quality management systems - Requirements for regulatory purposes (ISO 13485:2003)
EN 61326-1:2006	Electrical equipment for measurement, control and laboratory use - EMC requirements Part 1: General requirements IEC 61326-1:2005
	Electrical equipment for measurement, control and laboratory use - EMC
EN 61326-2-6:2006	requirements Part 2-6: Particular requirements - In vitro diagnostic
	(IVD) medical equipment IEC 61326-2-6:2005
EN (1010 1.3001	Safety requirements for electrical equipment for measurement, control,
EN 61010-1:2001	and laboratory use Part 1: General requirements IEC 61010-1:2001
	Safety requirements for electrical equipment for measurement, control
EN 61010-2-081:2002	and laboratory use Part 2-081: Particular requirements for automatic
+A1:2003	and semi-automatic laboratory equipment for analysis and other
	purposes IEC 61010-2-081:2001
	Safety requirements for electrical equipment for measurement, control,
EN 61010-2-101:2002	and laboratory use Part 2-101: Particular requirements for in vitro
	diagnostic (IVD) medical equipment IEC 61010-2-101:2002 (Modified)
EN62304:2006	Medical device software-Software life-cycle processes

Drafted by: 732

PLS-JS-01-D34-65-1001 (2016) Declaration of Conformity-V.01



BC-20s Auto Hematology Analyzer

Technical Specifications

Performance			_
Parameter	Linearity Range	Precision (CV %)	Carryover
WBC(10 ⁹ /L)	0-100	≤3.5% (4.0-6.9)	≤0.5%
000(1012/1)		≤2.0% (7.0-15.0)	0 = 0 /
RBC(10 ¹² /L)	0-8.00	≤1.5% (3.5-6.5)	≤0.5 ⁰ ⁄ ₀
HGB(g/L)	0-280	≤1.5% (100-180)	≤0.5%
MCV(fL)	0.1000	≤1.0% (70-110)	-1.00/
PLT(10 ⁹ /L)	0-1000	≤5.0% (100-149)	≤1.0 ⁰ ⁄ ₀
		≤4.0% (150-500)	
HGB, HCT, M		DW-CV, RDW-SD, PL	%, Mid%, Gran%, RBC, Г, MPV, PDW, PCT
HGB, HCT, M 3 histograms Reagent	CV, MCH, MCHC, RI for WBC, RBC and	DW-CV, RDW-SD, PL	
HGB, HCT, M 3 histograms Reagent M-30D DILUI	CV, MCH, MCHC, RI for WBC, RBC and	DW-CV, RDW-SD, PL	
HGB, HCT, M 3 histograms Reagent M-30D DILUI M-30CFL LYS	CV, MCH, MCHC, RI i for WBC, RBC and ENT	DW-CV, RDW-SD, PL	
HGB, HCT, M 3 histograms Reagent M-30D DILUI M-30CFL LYS	CV, MCH, MCHC, RI i for WBC, RBC and ENT	DW-CV, RDW-SD, PL	
HGB, HCT, M	CV, MCH, MCHC, RI for WBC, RBC and ENT E NSER	DW-CV, RDW-SD, PL	
HGB, HCT, M 3 histograms Reagent M-30D DILU& M-30CFL LYS PROBE CLEA Sample Volu	CV, MCH, MCHC, RI for WBC, RBC and ENT EE NSER me	OW-CV, RDW-SD, PL PLT	
HGB, HCT, M 3 histograms Reagent M-30D DILU M-30CFL LYS PROBE CLEA Sample Volu Prediluted m	CV, MCH, MCHC, RI for WBC, RBC and ENT EE NSER me iode 20µL	OW-CV, RDW-SD, PL PLT	
HGB, HCT, M 3 histograms Reagent M-30D DILUE M-30CFL LYS PROBE CLEA	CV, MCH, MCHC, RI for WBC, RBC and ENT iE NSER me iode 20µL	OW-CV, RDW-SD, PL PLT	

Mindray Building, Keji 12th Road South, High-tech Industrial Park, Nanshan, Shenzhen 518057, P.R. China Tel: +86 755 8188 8998 Fax: +86 755 26582680	window with one of the second
E-mail: intl-market@mindray.com www.mindray.com	
Mindray is listed on the NYSE under the symbol"MR"	

WIFI capability provides you an added option for data communication together with bi-directional LIS, USB port and LAN port, barcode reader, printer and keyboard. Data Storage Capacity Up to 200,000 results including numeric and graphical information

Communication LAN Port supports HL7 protocol Support bi-directional LIS

Interface 4 USB port (for external printer, software upgrade, barcode reader, WIFI adapter,keyboard and mouse), LAN port (1)

Printout Thermal recorder, 50 mm wide paper, various printouts formats External printer optional

Derating Environment Temperature: 10°C~40°C Humidity: 10%~90% Air pressure: 70kPa~106kPa

Power Requirement 100V-240V ≤300VA 50Hz/60Hz

Dimension and Weight Dimension: Depth(410 mm) x width(300 mm) x height(400 mm) Veight: ≤20Kg



BC-20s

Auto Hematology Analyzer

Minimum Size, Maximum Capability





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-Medical Electronics Co., 1 td. All rights reserved. Specifications subject to changes without prior notice.						

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What a 3-part should be

At Mindray we pride ourselves in our dedication and experience in developing better solutions for small labs. Our new line of 3-part hematology analyzers is the culmination of that effort. Compact yet powerful, full featured yet affordable, the BC-20s is what a 3-part analyzer should be.



Exclusive Feature

Detailed flag information never before seen on a 3-part analyzer. Provides information useful for diagnosis including WBC flag, RBC flag and PLT flag.

BC-20s Auto Hematology Analyzer

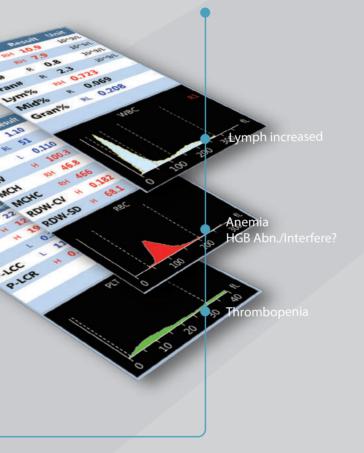
Sample 1 : BC-20s shows flag "Lymph increased" which means a high number of Lymphocytes and/or immature cells. Meanwhile R1 flag is also displayed. Two kinds of flag messages are both supported to ensure clinicians have better understanding of sample results.

Sample 2 : Flag "Anemia" and "HGB Abn./Interfere?" are displayed. They mean the sample has shows either signs of Anemia, Abnormal Hemoglobin or sample is interfered such as by high value of Leukocytes or Agglutinated Erythrocytes.

Sample 3 : Flag "Thrombopenia" indicator is shown together with Platelets low flag.

Different flag information provided according to parameter results together with histograms.





Better Usability

Minimum size with the footprint similar to that of a 17 inch laptop, with space saving design that allows internal storage of lyse giving small labs more space. 8.4 inch TFT touch screen together with our powerful software enhances user operations and experience.

Higher Efficiency

New technology that eliminates the need for cleanser and rinse, reducing the number of reagents needed while at the same time lowering overall reagent consumption.

Flexible packaging of reagents, with normal and small sizes to better cater to the needs of different daily sample volumes.









Enhanced Performance

Higher throughput at 40 tests per hour.

Micro sample volume at 9.0uL for whole blood mode with capillary whole blood samples supported, perfect for pediatric samples.

Better Usability



Minimum size with the footprint similar to that of a 17 inch laptop, with space saving design that allows internal storage of lyse giving small labs more space.

10.4 inch TFT touch screen together with our powerful software enhances user operations and experience.



New technology that eliminates the need for cleanser and rinse, reducing the number of reagents needed while at the same time lowering overall reagent consumption. Flexible packaging of reagents, with normal and small sizes to better cater to the needs of different daily sample volumes.

Enhanced Performance

Higher throughput at 70 tests per hour.



Micro sample volume at 9.0uL for whole blood mode with capillary whole blood samples supported, perfect for pediatric samples.

BC-30s Auto Hematology Analyzer

Technical Specifications

Principles

Impedance method for WBC, RBC and PLT counting Cyanide free reagent for hemoglobin test

Performance

Parameter	Linearity Range	Precision (CV %)	Carryover
WBC(10 ⁹ /L)	0-200	≤3.5% (4.0-6.9) ≤2.0% (7.0 -15.0)	≤0.5 [%]
RBC(10 ¹² /L)	0-8.00	≤1.5% (3.5-6.5)	≤0.5%
HGB(g/L)	0-280	≤1.5% (100 -180)	≤0.5%
MCV(fL)		≤1.0% (70 -110)	
PLT(109/L)	0-4000	≤5.0% (100 -149) ≤4.0% (150 -500)	≤1.0%

Parameters

21 parameters: WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR,P-LCC 3 histograms for WBC, RBC and PLT

Reagent M-30D DILUENT M-30CFL LYSE PROBE CLEANSER

Sample Volume Prediluted mode 20μL Whole blood mode 9 μL

Throughput 70 samples per hour

Display 10.4 inch TFT Touch Screen

Mindray is listed on the NYSE under the symbol "MR"	
E-mail: intl-market@mindray.com www.mindray.com	
Tel: +86 755 8188 8998 Fax: +86 755 26582680	P/N: ENG-BC-30s-
Mindray Building Keii 12th Road South	©2015 Shenzhen Min



Multi-language Chinese, English, Spanish, Portuguese, Russian, French, Bahasa Indonesia

Data Storage Capacity Up to 500,000 results including numeric and graphical information

Communication LAN Port supports HL7 protocol Support bi-directional LIS

Interface

4 USB port (for external printer, software upgrade, barcode reader, WIFI adapter,keyboard and mouse), LAN port (1)

Printout Thermal recorder, 50 mm wide paper, various printouts formats External printer optional

Operating Environment Temperature: 10°C~40°C

 Humidity:
 10%~90%

 Air pressure:
 70kPa~106kPa

Power Requirement 100V-240V ≤300VA 50Hz/60Hz

Dimension and Weight Dimension: Depth(410 mm) x width(300 mm) x height(400 mm) Weight: ≤20Kg



BC-30s

Auto Hematology Analyzer

Minimum Size, Maximum Capability



mindray healthcare within reach

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What a 3-part should be

At Mindray we pride ourselves in our dedication and experience in developing better solutions for small labs. Our new line of 3-part hematology analyzers is the culmination of that effort. Compact yet powerful, full featured yet affordable, the BC-30s is what a 3-part analyzer should be.

Exclusive Feature

Sample Time	ID	dz-1-60 10-13-2	Warran and		lame Aode					Gender Age		1
arame	ter	Result	Unit	Paramete	r	Result	Unit	Parame	ter	Result	Unit	TOC Message
VBC	L	2.4	10^9/L	RBC	L	1.86	10^12/L	PLT	L	38	10^9/L	Leucopenia
ym#	L	0.7	10^9/L	HGB	L	67	g/L	MPV	н	12.6	fL.	Lymph decreased Pancytopenia
1id#	R	0.3	10^9/L	нст	L	0.193		PDW	н	18.5		rancytopena
iran#	RL	1.4	10^9/L	MCV	н	103.5	fL	PCT	L	0.48	mL/L	
m%		0.305		MCH	н	35.8	pg	P-LCC	L	17	10^9/L	
tid%	R	0.130		мснс		346	g/L	P-LCR	н	0.455		
ran%	R	0.565		RDW-CV		0.157						
				RDW-SD	н	60.7	fL					RBC Message
	W	/BC	R3		R	BC			P	nt.		Anemia
0 10		200 300	,⊷ fL		0	200	300 fL	0 10	- 2	20 30	40 fL	PLT Message Thrombopenia

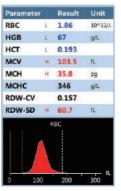
Detailed flag information never before seen on a 3-part analyzer. Provides information useful for diagnosis including WBC flag, RBC flag and PLT flag. Different flag information provided according to parameter results together with histograms.





Leucopenia Lymph decreased Pancytopenia Sample 1 : BC-30s shows flags "Leucopenia", "Lymph decreased", "Pancytopenia" which mean white blood cell decreased, the low number of Lymphocyte and decreased of leukocyte, erythrocyte and plate count. Meanwhile "R3" flag is also displayed. Two kinds of flag messages are both supported to ensure clinicians have better understanding of sample results.

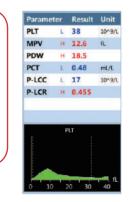
> Sample 2 : Flag "Anemia" means that the sample has the possibility of anemia.



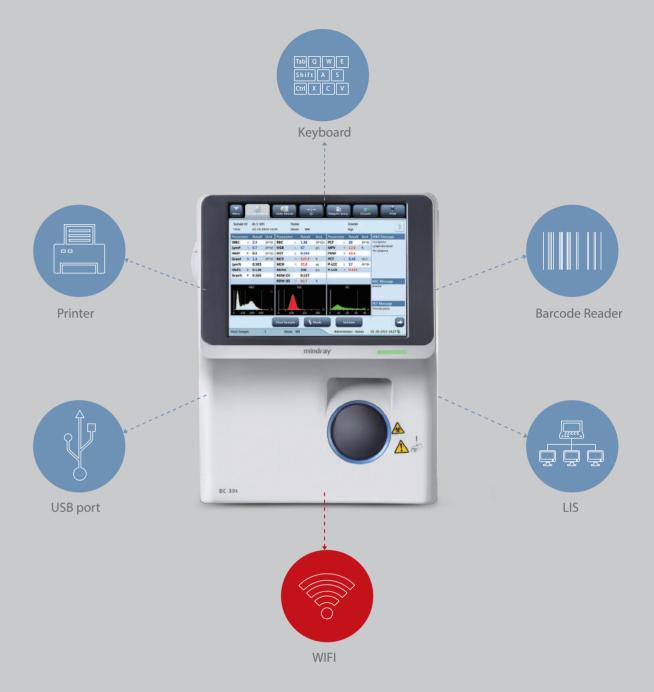
Anemia



Sample 3 : Flag "Thrombopenia" indicator is shown together with Platelets low flag.



Thrombopenia



WIFI capability provides you an added option for data communication together with bi-directional LIS, USB port and LAN port, barcode reader, printer and keyboard.



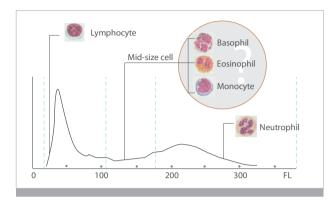


BC-5150 Auto Hematology Analyzer

A "CUTE" 5-part



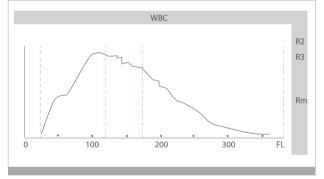
Why do we need 5-part hematology analyzers?



WBC differential: 3-part

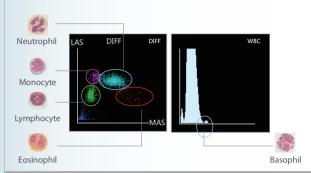
3-part hematology analyzers can not differentiate Basophil, Eosinophil and Monocyte. Additionally, Lymphocyte and Neutrophil results are easily affected by abnormal cells.





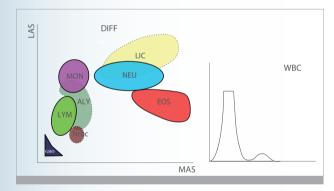
WBC histogram only indicates regional abnormal graph, it can't bring specific flags for different clinical cases.

WBC differential: 5-part



5-part hematology analyzers can provide Lymphocyte, Monocyte, Neutrophil, Eosinophil and Basophil results for every sample. Additionally, the 5-part results are less affected by abnormal cells.

Flag information: 5-part



5-part hematology analyzers provide more detailed and specific flag information. Users are able to clearly understand the clinical significance of flags and make a decision.



Dr Marisela Ramos, lab manager

Users are able to access our tailored innovation and intelligent diagnosis support to safeguard their diagnoses decisions with maximum confidence.

She said: " we upgraded to a 5-part hematology analyzer 3 months ago, and it's been working very well. Our lab has lots of abnormal samples, such as Eosinophilia and Monocytosis samples. We could only get the information that the mid-size cells percentage was higher than normal level, but couldn't distinguish which kind of cells increased exactly. Now, the 5-part hematology analyzer provides flags directly, which reduces smears need to be reviewed, and significantly improves our work efficiency."

BC-5150 Auto Hematology Analyzer

Based on Mindray's continuous innovation in hematology field, BC-5150 is especially tailored to assist diagnostic labs who need full CBC + 5-part results, with relatively low daily sample volume, restricted lab space and tight budget.

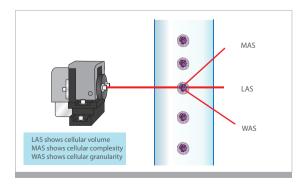
As the lightest and most compact 5-part hematology analyzer so far from Mindray, BC-5150 is a highly user-friendly and innovative analyzer that offers cost efficient CBC and 5-part white cell differential results. It is targeted to fulfill and exceed the demands of our global customers by providing more accurate, more efficient and more innovative solutions for labs.

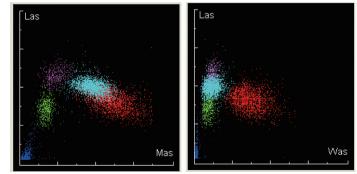
WBC 5-part differentiation, 25 reportable parameters and 24 research parameters, 3 histograms and 4 scattergrams

Whole blood mode, Capillary whole blood mode and Prediluted mode
Tri-angle Laser scatter + Chemical dye + Flow cytometry technology
Dedicated optical counting channel for Basophil measurement
Powerful capability of flagging abnormal cells
10.4 inch large TFT touch screen with user-friendly software
Large storage capacity: up to 250,000 samples
Throughput: 60 samples per hour
Sample volume is only 15µL which is ideal for pediatrics



Tri-angle laser scatter + focused flow + chemical dye, creating the possibility for a better 5-part WBC differentiation even on samples with high Eosinophil.





BC-5150, the 5-part hematology analyzer offers a great solution for clinical labs, especially for those who have limited space. Its compact foot-print is a result of innovative technology improvements, including miniaturized semi-conductor laser source, highly integrated electronic boards and optimized liquid handling system.



Compact

Two kinds of lyse reagents are located inside of BC-5150, which helps the small labs to save space.



The 10.4 inch TFT touch screen with a wide viewing angle, brings convenience to clinicians. Users can complete all instrument operations on the screen, practically eliminating the need for an external PC.



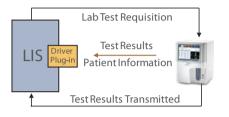
BC-5150 inherits it's convenient and proven powerful software design from BC-6800 and BC-3600 platforms, the friendly interface is ideal for small sized labs.



Running capillary blood through the sample probe directly is more convenient for the users in children's hospitals, etc. For Prediluted mode, BC-5150 has higher dilution ratio than other 5-part hematology analyzers, thus it brings a better mixing effect.



4 USB ports are located on the instrument's left side. They permit BC-5150 users to transmit data conveniently and connect with printers, keyboard, mouse, barcode scanner, etc.

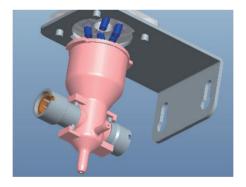


BC-5150 supports bi-directional LIS with test results and patient information. HL7 protocol is supported as well.



Technology

Compared with traditional helium neon laser or argon laser, semi -conductor laser has smaller size, lower cost and longer life cycle.



Improved DC impedance technology is used to count and size the RBC and PLT. The smaller counting aperture (50 µm in diameter) provides better performance on samples with low PLT.



Efficient

Only three routine reagents are required. These have 2 years shelf life and also less consumed by BC-5150. Original QC and calibrator are also provided to ensure the hematology analyzer's traceability and testing quality.

Technical Specifications

Principles

Impedance method for RBC and PLT counting Cyanide free reagent for hemoglobin test Flow Cytometry (FCM) + Tri-angle laser scatter + Chemical dye method for WBC 5-part differential analysis and WBC counting

Parameters

25 parameters: WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC. 24 research parameters including LIC%, LIC#, ALY%, ALY#,PLT Clump#, PLT Clump%, Lip#, Lip%, NRBC#, NRBC%, Blast#, Blast%, PDW-SD,NLR,PLR, Neu-X, Neu-Y, Neu-Z, Lym-X, Lym-Y, Lym-Z, Mon-X, Mon-Y, Mon-Z 3 histograms for WBC, RBC and PLT

4 scattergrams for WBC differential

Reagent

M-52D Diluent, M-52DIFF Lyse, M-52LH Lyse, Probe Cleanser

Performance

Parameter	Linearity Range	Precision	Carryover
WBC	0-500×10 ⁹ /L	≤2% (4-15×10 ⁹ /L)	≤0.5%
RBC	0-8×10 ¹² /L	$\leq 1.5\% (3.5-6.0 \times 10^{12}/L)$	≤0.5%
HGB	0-250g/L	≤1.5% (110-180g/L)	≤ 0.6 ⁰ ⁄ ₀
PLT	0-5000×10 ⁹ /L	≤6.0% (100-149×10 ⁹ /L)	≤1.0 [%]
		$\leq 4.0\% (150-500 \times 10^9/L)$	

Sample Volume

Prediluted mode	20 µL
Whole blood mode	15 μL
Capillary whole blood mode	15 μL

Throughput 60 samples per hour

Display 10.4 inch TFT Touch Screen

Multi-language Chinese, English, Spanish, Portuguese, Russian, French, Bahasa Indonesia

Data Storage Capacity Up to 250,000 results including numeric and graphical information

Communication LAN port supports HL7 protocol

Interface

USB, LAN Support bi-directional LIS

Printout

External Thermal printer / Laser printer / Inkjet printer, various printout formats and user-defined formats

Operating Environment

Temperature: 10°C~30°C Humidity: 20%~85% Air pressure: 70 kPa~106 kPa

Power requirement

100V-240V 50Hz/60Hz

Dimension and Weight

Depth(400 mm) x width(320 mm) x height(410 mm) Weight :24kg



P/N: ENG-BC-5150-210285x6P-20190806 ©2017 Shenzhen Mindray Bio-Medical Electronics Co.,Ltd. All rights reserved.

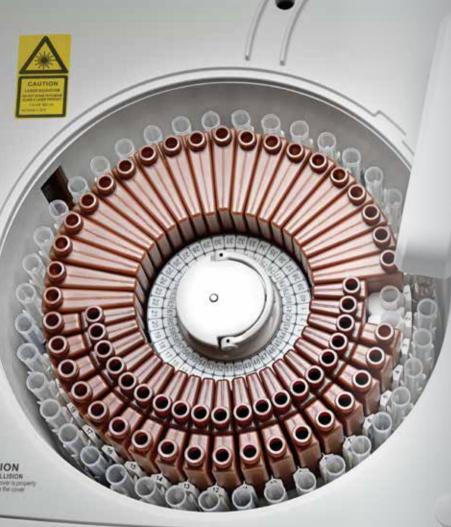




BS-240 Clinical Chemistry Analyzer







WARNING MOVING MOVING PARTY

Flexible loading: Up to 80 sample positions, Up to 80 reagent positions. (40 fixed + 40 interchangeable)

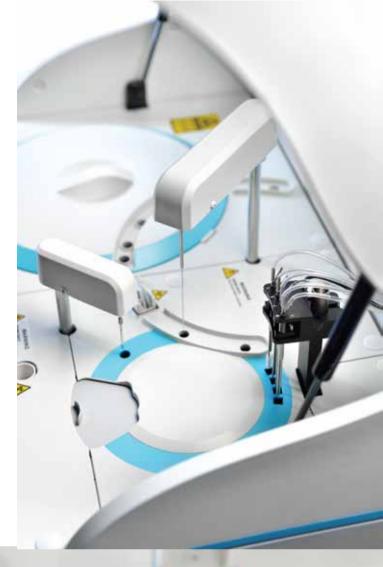
Smart-Sampling Technology

Automatic hemolysate preparation for

HbA1c test



100µl minimum reaction volume



COMPANY DOCTORS (

Upgraded auto-washing system ensures low carryover and low water consumption.



Compact Size with Robust Functions



Independent mixing bar



Built-in barcode reader

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Intelligent software with user-friendly interface

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Step-by-step maintenance guide



Waterfall probe cleaning

BS-240

Complete traceability process

Complete calibration hierarchy and traceability chain are based on ISO standard (EN/ISO17511) from reference system to routine measurement system.

Traceability chain of Mindray measurement system (Glu)

External quality assurance for reference measurement

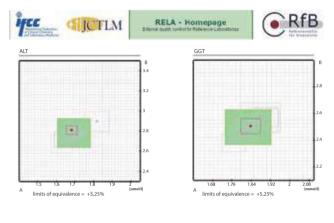
Mindray participates in RELA (External quality control for reference laboratory) and CAP (College of American Pathologists external quality control).

EQA for Mindray Reference laboratory——RELA

Mindray reference laboratory has passed RELA for 6 consecutive years.

Calibration / Traceability Material Procedure Implementation Uncertainty Value Assignment Uc(y) SI unit,mmol/L Primary Reference Reference material measurement procedure SRM 917C CDC Hexokinase Mindray Master reference method Calibrator Mindray Product Mindray standard Calibrator Measurement system End user' Routine **Routine Sample** Mindray

Result



More RELA results please refer to: www.dgkl-rfb.de/81

RELA				,	All the	items	Mind	ray p	artic	ipate	RELA
	ALT	AMY	ALP	СК	GGT	GLU	LDH	ТВ	TP	UA	UREA

EQA for Mindray Testing System—— CAP

Mindray testing system has passed CAP for 6 consecutive years.

College of American Patholo 213 Washegen Road, Swithfield, Illinois 205-212-000 + Ingulware.co.org Advancing Excellence	CAP Number: 7198395-01 Kit# 1 Institution: Shenzhen Mindray Biomed Elec Co Ltd Attention: Lixing Liu MD City / State: Hongkong HK CH 518055	Kit ID: 25733824 Kit Mailed: 6/3/2013 Original Evaluation: 7/8/2013
E V A L U A T I O N ORIGINAL	С-В 20:	3 Chemistry

	C	AP #:	719839	5		Subspe	cialty : Routing	e Chemistry			
	Proficiency Event 2012 3			ficiency Ev 2013 1	ent	Proficiency Event 2013 2			Current Event Performance	Cumulative CLIA	
Regulated Analyte	Test Event	Score	%	Test Event	Score	%	Test Event	Score	%	Interpretation	Interpretation
ALT	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Albumin	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Alkaline Phosphatase	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Amylase	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
AST	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Bilirubin, Total	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Calcium, Total	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Chloride	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Cholesterol, Total	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Cholesterol, HDL	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Creatine Kinase	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Creatinine	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Glucose	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Iron, Total	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
LD	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Magnesium	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Potassium	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Sodium	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Protein, Total	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Triglycerides	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Urea Nitrogen	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful
Uric Acid	C-C	5/5	100	C-A	5/5	100	C-B	5/5	100	Satisfactory	Successful

Reagent menu

Hepatic Panel

Alanine Aminotransferase (ALT) Aspartate Aminotransferase (AST) Alkaline Phosphatase (ALP) γ-GlutamylTransferase (γ-GT) Direct Bilirubin (D-Bil) DSA Method Direct Bilirubin (D-Bil)VOX Method Total Bilirubin (T-Bil) VOX Method Total Bilirubin (T-Bil)VOX Method Cholinesterase (CHE) α-L-fucosidase (AFU) 5'-nucleotidase (5'-NT)

Renal Panel

Urea (UREA) Creatinine (CREA) Modified Jaffé Method Creatinine (CREA)Sarcosine Oxidase Method Uric Acid (UA) Carbon dioxide (CO2) Microalbumin β2-Microglobulin (β2-MG) Cystatin C (CysC) Retinol binding protein(RBP)

Immune Panel

Immunoglobulin A (IgA) Immunoglobulin G (IgG) Immunoglobulin M (IgM) Complement C3 (C3) Complement C4 (C4)

Diabetes Panel

Glucose (Glu) GOD-POD Method Glucose (Glu) HK Method Hemoglobin A1c (HbA1c) Fructosamine (FUN) β-Hydroxybutyrate(β-HB)

Cardiac panel

Creatine Kinase (CK) Creatine Kinase-MB (CK-MB) Lactate Dehydrogenase (LDH) α-Hydroxybutyrate Dehydrogenase(α-HBDH) High sensitive C-reaction protein(HS-CRP)

Inorganic & Anemia

Iron (Fe) Ferritin (FER) Transferrin (TRF) Calcium (Ca) Magnesium (Mg) Phosphate Inorganic (P) Unsaturated iron binding capacity (UIBC) Glucose-6-phosphate dehydrogenase (G6PD)

Lipid Panel

Total Cholesterol (TC) Triglycerides (TG) HDL-Cholesterol (HDL-C) LDL-Cholesterol (LDL-C) Apolipoprotein A1 (ApoA1) Apolipoprotein B (ApoB) Lipoprotein(a) [Lp(a)]

Rheumatism Panel

C-reactive protein (CRP) Rheumatoid Factor (RF) Antibodies Against Streptolysin O (ASO)

Lung Panel

Adenosine Deaminase (ADA) Angiotensin Converting Enzyme(ACE)

Pancreatitis Panel

α-Amylase (α-AMY) Lipase (LIP)

BS-240 Clinical Chemistry Analyzer

Technical Specifications

Custom function		ICE Madula (antiou				
System function		ISE Module (optional) Measuring K+, Na+, Cl-				
	rete, Random Access, Bench-top	Measuring K+, Na-	F, CI-			
STAT sample price	-	Mixing Unit				
	o to 200 tests/hour, up to 400 tests/hour with ISE	Mixing Unit				
	iples: Absorbance photometry, Turbidimetry, Ion	Independent mixin				
Selective Electro		Cuvette Washing: Washing station with pre-warmed detergent				
Methodology:	End-point, Fixed-time, Kinetic, optional ISE,		and water			
	Single/Dual/ reagent chemistries,	OutinelCustors				
Oninin al avatana	monochromatic / bi-chromatic	Optical System				
	pack reagent ready to use	Light Source:	Halogen-tungsten lamp			
Close system and	d open system is optional	Wavelength:	8 wavelengths, 340nm、405nm、450nm、 510nm、546nm、578nm、630nm、670nm			
Reagent/Sample	Handling	Absorption range:	0~4.0 Abs (10mm conversion), resolution			
	e tray: 80 positions for reagents and 40 positions	Absorption lange.	0.0001Abs			
Reagent/ Sample	for samples in 24-hour refrigerated	Stray Light	5.6Abs			
	compartment ($2 \sim 12^{\circ}$ C)	Stray Light	5.07.05			
Reagent volume	: 10~250µl, step by 0.5µl	Control and Calibr	ation			
	2~45µl, step by 0.1µl	Calibration modes: Linear (one point, two points and				
-	probe: Liquid level detection, vertical collision		multi-points), Logit-Log 4P, Logit-Log 5P,			
	nventory checking, reagent pre-warming		spline, exponential, polynomial, parabola			
-	Automatic washing for interior and exterior	Control Rules:	X-R, L-J, Westgard multi-rule, Cumulative sum			
5	Carry over < 0.05%		check, twin plot			
Automatic samp	le dilution: Pre-dilution and post-dilution					
		Operation Unit				
Internal bar code	e reader (optional)	Operation system:	Windows 8			
Used for sample	and reagent programming	Interface:	RS-232			
Be applicable to	various bar code systems of Codabar、 ITF					
(Interleaved Two	of Five)、code128、code39、UPC/EAN、	Working Conditior	15			
Code93		Power Supply:	200~240V, 50/60Hz, ≤1000VA or 100~130V,			
Capable to com	municate with LIS in bi-directional mode		60Hz, ≤1000VA			
		Dimension:	690 mm (length) ×580 mm (depth) ×595 mm			
Reaction System	::		(height)			
Reaction rotor:	Rotating tray, containing 40 cuvettes	Weight:	79 kg			
Cuvette:	Reusable, optical length 5mm	Water Consumptio	$pn: \le 4 L/H$			
Reaction volume	e: 100~360µl					

Mindray Building, Keji 12th Road South, High-tech Industrial Park, Nanshan, Shenzhen 518057, P.R. China Tel: +86 755 8188 8998 Fax: +86 755 26582680 E-mail: intl-market@mindray.com www.mindray.com

Operating temperature: 37° C Temperature fluctuation: $\pm 0.1^{\circ}$ C

> mind_{var} are registered trademarks or trademarks owned by Shenzhen Mindray Bio-medical Electronics Co., LTD. © 2015 Shenzhen Mindray Bio-Medical Electronics Co., Ltd. All rights reserved. Specifications subject to changes without prior notice. P/N: ENG-BS-240-21285x8-20160105





www.precil.com.cn

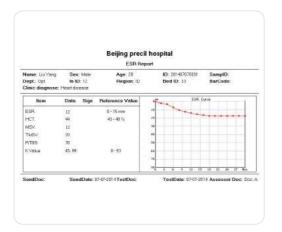


LBY-XC40B/LBY-XC20B

Auto Dynamic Erythrocyte Sedimentation Rate (ESR) Monitor

Dynamic Scan, Easy Operation





Technical specifica	tions
Testing Channel	40/20
Testing Time	60min/30min
Scanning Interval	2.5min
Accuracy	±5%
Channel Consistency	5%
Repeatability Error	≤3%
Report Unit	mm/h

Features

- Dynamic scanning of erythrocyte sedimentation process
- $\bullet\,$ Automatically calibration to the test result at 25 $^\circ\!\!\mathbb{C}\,$
- Auto induction of sample loading and auto testing
- Extremely easy operation: load and testing



Beijing Precil Instrument Co., Ltd.

Building No5, Shangdi Qunying Technology and Science Park, Haidian District , Beijing, P.R.China (100085)TEL: 0086-10-6297181862987758FAX: 0086-10-62987761http://www.precil.com.cn

Declaration of Conformity

Manufacturer:

()

Lansion Biotechnology Co., Ltd. Add: No.2, Qiande Road, Science Park, Jiangning District, 210000 Nanjing, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA Tel: 025-58577660

CE

Authorized Representative: Llins Service & Consulting GmbH Obere Seegasse 34/2, 69124, Heidelberg, Germany

Signature

We declare under our sole responsibility that: Product Name: HbA1c Test Kit (Dry Fluorescence) Type/Model: 25T

Classification: Conformity Assessment Peocedure: HbA1c Test Kit (Dry Fluorescence Immunoassay) 25T Others Directive 98/79/EC Annex III

We herewith declare that the product meet the transposition into national law, the provisions of the following EC Council Directives and Standards. All supporting documentations are retained under the premises of the manufacturer.

DIRECTIVES

Medical Device Directive: COUNCIL DIRECTIVE 98/79/EC of 27 October 1998 concerning medical devices (IVDD 98/79/EC) and its transpositions in national laws which apply to it.

Nanjing, China March, 12,2020 Place, Date

Declaration of Conformity

Manufacturer:

CE

Lansion Biotechnology Co., Ltd. Add: No.2, Qiande Road, Science Park, Jiangning District, 210000 Nanjing, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA Tel: 025-58577660

CE

Authorized Representative: Llins Service & Consulting GmbH Obere Seegasse 34/2, 69124, Heidelberg, Germany

We declare under our sole responsibility that:

-	•
Product Name:	Dry Fluorescence Immunoassay Analyzer
Type/Model:	LS-1100
Classification:	Others
Conformity Assessment Peocedure:	Directive 98/79/EC Annex III

We herewith declare that the product meet the transposition into national law, the provisions of the following EC Council Directives and Standards. All supporting documentations are retained under the premises of the manufacturer.

DIRECTIVES

Medical Device Directive: COUNCIL DIRECTIVE 98/79/EC of 27 October 1998 concerning medical devices (IVDD 98/79/EC) and its transpositions in national laws which apply to it.

Nanjing, China March, 12,2020 Place, Date



44 / 07







Certificate

No. Q5 002596 0002 Rev. 00 Holder of Certificate: Lansion Biotechnology Co., Ltd. No.2 Qiande Road, Science Park, Jiangning District 210000 Nanjing, Jiangsu Province PEOPLE'S REPUBLIC OF CHINA Facility(ies): Lansion Biotechnology Co., Ltd. No.2 Qiande Road, Science Park, Jiangning District, 210000 Nanjing, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA **Certification Mark:** tuv-sud.com/ps-ceri Scope of Certificate: Design and Development, Production and Distribution of Dry Fluorescence Immunoassay Analyzer, Dry Fluorescence Immunoassay test kits, Hemagglutination Assay Kit(electrochemical method), Handheld coagulation Analyzer Applied Standard(s): EN ISO 13485:2016 Medical devices - Quality management systems -Requirements for regulatory purposes (ISO 13485:2016) DIN EN ISO 13485-2016 The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system, which meets the requirements of the listed standard(s). See also notes overleaf. Report No.: SH19126603

Valid from: Valid until:

2020-02-26 2021-04-02

Date. 2020-02-26

Page 1 of 1

Christoph Dicks Head of Certification/Notified Body

Test Items:

Category	Test Item	Specimen Type	Sample Volume	Reaction Time	Measuring Range
Diabetes	HbAlc	WB	5µL	15min	3.0-14.0%
	CRP	S/P/WB	5µL	3min	0.5-200µg/mL
Inflammation	PCT	S/P/WB	100µL	10min	0.1-50ng/mL
	SAA	S/P/WB	5μL	15min	2.0-300µg/mL
	CK-MB	S/P/WB	100µL	10min	2.0-80ng/mL
	cTnI	S/P/WB	100µL	10min	0.05-40ng/mL
Cardiac	Муо	S/P/WB	100µL	10min	20-500ng/mL
Cardiac	NT-proBNP	S/P/WB	100µL	15min	50-25000pg/mL
	D-Dimer	P/WB	100µL	10min	0.1-10µg/mL
	H-FABP	S/P/WB	100µL	15min	1-120ng/mL
	⊤3	S/P/WB	100µL	15min	0.5-10nmol/L
	Τ4	S/P/WB	100µL	10min	10-350nmol/L
	TSH	S/P/WB	100µL	15min	0.1-60µIU/mL
	25-0H-VD	S/P	100µL	10min	5-70ng/mL
	β-HCG	S/P/WB	50µL	15min	2-20000mIU/mL
Hormone	LH	S/P/WB	100µL	15min	5-200m1U/mL
	FSH	S/P/WB	100µL	10min	1-150mIU/mL
	GH	S/P/WB	100µL	10min	0.05-100ng/mL
	PRL	S/P/WB	100µL	10min	1-100ng/mL
	АМН	S/P/WB	100µL	10min	0.1-50ng/mL
	PGI	S/P/WB	100µL	10min	10-60ng/mL
	PGII	S/P/WB	100µL	10min	5-100ng/mL
	G-17	S/P/WB	100µL	10min	5-300ng/mL
	NGAL	S/P/WB/Urine	100µL	10min	50-5000ng/mL
Renal	mAlb	Urine	100µL	5min	10-200mg/L
	β2-MG	S/P/WB	10µL	10min	0.5-20mg/L
	Cys-C	S/P/WB	10µL	5min	0.5-10ng/L
Tumor	PSA	S/P/WB	100µL	10min	0.1-100ng/mL

LS-1100

Dry Fluorescence Immunoassay Analyzer (Portable)



New items are available soon!

Lansion Biotechnology Co., Ltd.

Add: No.2 Qiande Road, Jiangning District, Nanjing, China E-mail: biz@lansionbio.com Web: en. lansionbio.com

Tel: +86-25-5857 7600 Fax: +86-25-5875 8600



Lansion Biotechnology Co., Ltd.



LS-1100 Dry Fluorescence Immunoassay Analyzer (Portable)

Analyzer Introduction:

LS-1100 uses the advanced method of Time-resolved Fluorescence Immunoassay (TRFIA), for the in-vitro quantitative detection of bio-markers for Diabetes Mellitus, Inflammation, Cardiovascular Diseases, Hormone, Gastric Diseases, Renal Diseases, Tumor, etc.

Application: Laboratory, ER, Cardiology, ICU, Respiratory, Pediatrics, etc.

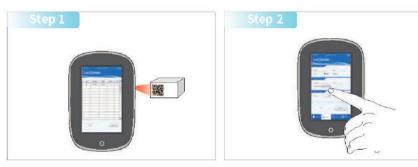
Features:



Method	Time-resolved Fluorescence Immunoassay (TRFIA)
Specimen	Serum/Plasma/Whole Blood/Urine
Weight	1.3kg
Dimensions	225 mm \times 152 mm \times 105 mm (L \times W \times H)
Screen	7 inch touch screen
Data Storage	≥5000
Printer	Built-in thermal printer
Battery	Built-in lithium battery (super standby time)
Communication	RS232(LIS/HIS), RJ45, USB, WIFI, Bluetooth

TRFIA is super-sensitive detection technique characterized by specific fluorescence of rare earth ions. It is not only highly sensitive, but also overcomes the instability of enzyme marker and is the best choice for immunological detection. The high fluorescence intensity and long life of labeled ionic chelates are beneficial to eliminate the influence of fluorescent substances in samples and environment on the test results.

Easy Operation:



QR Code Calibration

Information Input

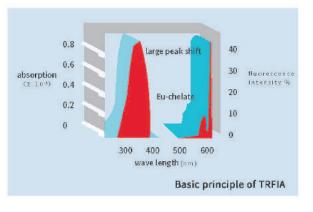




Automatic Detection

Result Output

Time-resolved Fluorescence Immunoassay (TRFIA) Method:







Sample Dispense

HbA1c Test Kit (Dry Fluorescence Immune Method) Instruction

[PRODUCT NAME] HbA1c Test Kit

(Dry Fluorescence Immunochromatography)

[PACKAGING STANDARD] 25 T/box

[INTENDED USE]

Suitable for in-vitro quantitative determination of HbA1c in whole blood.

PRINCIPLES

The HbA1c detection kit is made by the antigen — antibody reaction. The specimen is diffused forward due to capillarity, in which HbA1c binds to the antibody bound to the fluorescent granules. The composite is attached to a detection region with solidified antibody, and other fluorescent antibody particles attached to the quality control area. When the test kit inserted into the analyzer, the analyzer automatically scans the two ribbons and detects the fluorescence intensity emitted by the composite in the detection area and the quality control area, and calculates the content of the substance with the ratio of the two fluorescence values.

MAIN INGREDIENTS

1、HbA1c Test Strip

2、Other Ingredients: Instruction、SD Card、Diluent;

Note: Avoid affecting the test result, please do not use different batches of products.

[PRESERVATION AND STABILITY]

The kit is preserved at 4° C--30 $^{\circ}$ C, validity period is 12 months.

SPECIMEN DEMANDS

The sample can use the whole blood, but the test should be made within 1 hour after the blood collection.

1.Whole Blood statically settled and precipitated.

2.Add 10ul of precipitated sample, slightly blown and hit for 20 times, fully mixed.

TESTING STEPS

1.Turn on the analyzer.

2.Read SD card.

3.Dispense 90ul of dilute whole blood sample at test strip.

4.Insert the strip into the analyzer after 5 minutes.

5. Analyze and detect, and then display test results.

6.Pull out the strip.

[REFERENCE INTERVAL]

4%-6%: blood glucose control

6%-8%: blood glucose control up to standard

>8%: suggest to intensify blood glucose control

Note: It is suggested that each laboratory establish its own reference interval.

Reference Basis: With a sample book of 200 healthy people, the reference interval is determined by statistics.

TEST RESULT EXPLANATION

The incidence of diabetes in the world is very high, accounting for the ratio of immune diseases, which is as high as 2-5% in developed countries. The incidence of diabetes in China is also 2-3%, and also grows at 1 ‰ per year. Recent medical research shows that glycated hemoglobin in the blood (glycosylatedhemoglubin, GHb) (HbA1c) concentration is relatively stable, which can accurately reflect the blood

glucose level during the last 1-3 months, for the early diagnosis of diabetes mellitus; it also can be applied to monitoring of blood glucose and judgment of chronic complications for patients with diabetes, , which brings widely clinical importance.

[LIMITATIONS]

This kit is only for the whole blood test.

The test result of this kit is only one of the diagnostic aids for the clinicians.

[PERFORMANCE CHARACTERISTICS]

1. Blank Limit: The blank limit of the kit is not more than 4%.

- 2. Accuracy: The relative deviation within the range of $\pm 10\%$.
- 3. Repeatability: CV%≤15%.
- 4. Linear Range: within 4%-14%, R≥0.990.
- 5. HOOK Test: No Hook effect in high concentration samples.

 Inter batch difference: Difference between the three batch of kits is not more than 15%.

 Stability: Te kit conforms to the above 1-5 indicators after expiry time is full.

PRECUSTIONS

1. For in vitro diagnostic use only.

Do not insert the wet strip with blood or other fluids into the analyzer.

3. Do not use the damaged strip or strip in damaged pack.

4. Do not mix the ingredients of different kits.

[REFERENCES]

1. Bunn HF.蛋白质中非酶糖基化合物: 与糖尿病相关.AM J Med 1981:70:331-8

2. Jovanovic L,Peterson CM,糖机化红血素的临床效用, AM J Med 1981-70-331-8

3. Molnar GD.临床中关于糖尿病的新陈代谢的管理。糖尿病

1978; 27:216-25

BASIC INFO

REG. Company: Suzhou Lansion Biotechnology Co., Ltd

REG. Residence: F3, Building 1, No.8 Keling Road, High-tech District, Suzhou

Suzilou

Contact Details: 025-58577600

After-sales service unit: Suzhou Lansion Biotechnology Co., Ltd

Manufacturing Address: 025-58577600

Contact Details: 025-58577600

[PRODUCTION LICENCE NO.]

[REG. NO. / TECHINICAL REQUIREMENTS No.]

INSTRUCTION APPROVAL DATE AND REVISION DATE

[MANUFACTURING DATE] Please check the label or packaging



DECLARATION OF CONFORMITY

Diamond Diagnostics, Inc. hereby ensures and declares that the product(s) listed below comply with the requirement of the European Union In Vitro Diagnostics Medical Device Directive 98/79/EC.

A Diamond Diagnostics, Inc. ezúton kijelenti és biztosítja, hogy az alább felsorolt termékek megfelelnek az In Vitro Diagnosztikai Orvostechnikai eszközökről szóló Európai Uniós 98/79/EC irányelvben foglaltaknak

Diamond Diagnostics, Inc. versichert und erklä hiermit, daß die im Folgenden aufgeführten Produkte den Auflagen der IVD-Richtlinie für Invitro-Diagnostika der Europäischen Union (98/79/EC) entsprechen.

Diamond Diagnostics, Inc. assure et declare par la présente que le(s) produit(s) listé(s) c- dessous sont conformes aux exigencies de la directive européenne 98/79/CE relative aux dispositifs médicaux de diagnostici in vitro.

Diamond Diagnostics, Inc. asegura y declara que los productos listados a continuación cumplen con los requisites establecidos en la directive 98/79/EC de la Comunidad Europea para dispositivos medicos de diagnostic in vitro.

Diamond Diagnostics, Inc确保持审判认为出的"品符合欧洲共同体行体的》)翻图了器成的8/79/EC指令的出的要求。

Diamond Diagnostics, Inc. assegurar e declara que o produtos listado abaixo cumprir com os requisitos estabelecido no directiva 98/79/EC do Comunidade Européia de dispositivos médicos de diagnóstico in vitro.

Diamond Diagnostics, Inc. гарантирует и заявляет, что перечисленные ниже продукты соответствуют требованиям Директивы 98/79/ЕС Европейского союза о медицинском оборудовании для диагностики In-vitro.

Vitro Diagnostica Medical Device 98/79EC المنتجات المذكورة أدناه تتوافق مع متطلبات الاتحاد الاوربي المدرجة في التعليمة ان شركة دايموند داياغنوستكس تصرح و تؤكد أن

Diamond Diagnostics, Inc. dichiara ed assicura che I prodotti qui elecati sono conformi ai requisiti della direttiva comunitaria 98/79/CE relative ai dispostivi medico-diagnostici in vitro.

Product(s) / Termék(ek) / Produkt(e) / Produit(s) / Producto(s) / المنتج (ق) / Producto(s) / Продукт (ы) / (لمنتج (ق) / Prodott(i);

Date: 30 April, 2018

Diamond Electrolyte Analyzers Model: GEMLYTE, SMARTLYTE, SMARTLYTE PLUS, CARELYTE, CARELYTE PLUS, PROLYTE

Authorized gathy Fishin Officer: Fisher

Kathy Fisher Global Quality Manager (AR) Authorized Representative

Diamond Diagnostics Kft. 6 Óradna Street 1044 Budapest Hungary Tel: + 3617872222 Fax: + 3617872255

Quality Systems Registration ISO 13485:2016 ISO 9001:2015

Conformity Assessment Procedure Annex III, Self-Declared

Manufacturer's Name: Manufacturer's Address: Diamond Diagnostics, Inc. (USA) 333 Fiske Street Holliston, MA 01746 USA Tel: +1 (508) 429-0450 Fax: +1 (508) 429-0452



The names of various manufacturers and their instruments referred to herein may be protected by trademark or other law, and are used herein solely for purpose of reference. Diamond Diagnostics, Inc. expressly disclaims any affiliation with them or sponsorship by them.





MAGYAR SZABVÁNYÜGYI TESTÜLET HUNGARIAN STANDARDS INSTITUTION H-1082 Budapest, Horváth Mihály tér 1.

TANÚSÍTÁSI OKIRAT

CERTIFICATE

Tanúsítjuk, hogy a We certify that the Management System of

Diamond Diagnostics Inc. Magyarországi Fióktelepe

H-1044 Budapest, Óradna utca 6. Tanúsított székhely: H-1044 Budapest, Óradna utca 6.

irányítási rendszere megfelel a szabvány követelményeinek a következő alkalmazási területen: ionszelektív laboratóriumi mérőműszerek és alkatrészek, fogyóanyagok gyártása és klinikai diagnosztikai készülékek felújítása

meets the requirements of the standard for the following activities: the manufacture of blood electrolyte systems, consumables and re-manufacture of clinical diagnostic equipment

MSZ EN ISO 9001:2015 (ISO 9001:2015)

A tanúsítási okirat érvényes / The certificate is valid: 2020. 12. 21. – 2023. 06. 21. Ez a tanúsítvány az MSZT által évente kiadott fenntartási határozattal együtt érvényes. This certificate is valid together with the maintenance decision annually issued by MSZT. A tanúsítási okirat száma / Reg. number: 503/1341(2) Budapest, 2020. december 21. Az első tanúsítás dátuma / Date of the first certification: 2014. 06. 26.

Pónyai György ügyvezető igazgató

MSZT CERT

R



THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

MSZT has issued an IQNet recognized certificate that the organization:

Diamond Diagnostics Inc. Magyarországi Fióktelepe

H-1044 Budapest, Óradna utca 6. Certified headquarters: H-1044 Budapest, Óradna utca 6.

has implemented and maintains a

Quality Management System

for the following scope

the manufacture of blood electrolyte systems, consumables and re-manufacture of clinical diagnostic equipment

which fulfils the requirements of the following standard:

ISO 9001:2015

Issued on: **21-12-2020** First issued on: **26-06-2014** Expires on: **21-06-2023**

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

Registration Number: HU-MSZT-503/1341(2)-1261(2)



Alex Stoichitoiu President of IQNet



IONet Partners'

György Pónyai General Director of MSZT

IQNet Partners*:

AENOR Spain AFNOR Certification France APCER Portugal CCC Cyprus CISQ Italy CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany EAGLE Certification Group USA FCAV Brazil FONDONORMA Venezuela ICONTEC Colombia Inspecta Sertifiointi Oy Finland INTECO Costa Rica IRAM Argentina JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland NYCE-SIGE México PCBC Poland Quality Austria Austria RR Russia SII Israel SIQ Slovenia SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia

* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-

certification.com



MAGYAR SZABVÁNYÜGYI TESTÜLET HUNGARIAN STANDARDS INSTITUTION

H-1082 Budapest, Horváth Mihály tér 1.

TANÚSÍTASI OKURAT

CIERTUFICATE

Tanúsítjuk, hogy a We certify that the Management System of

Diamond Diagnostics Inc. Magyarországi Fióktelepe H-1044 Budapest, Óradna utca 6.

Tanúsított székhely: H-1044 Budapest, Óradna utca 6.

irányítási rendszere megfelel a szabvány követelményeinek a következő alkalmazási területen: ionszelektív laboratóriumi mérőműszerek és alkatrészek, fogyóanyagok gyártása és klinikai diagnosztikai készülékek felújítása

> meets the requirements of the standard for the following activities: the manufacture of blood electrolyte systems, consumables and re-manufacture of clinical diagnostic equipment

MSZ EN ISO 13485:2016 (ISO 13485:2016)



A tanúsítási okirat érvényes / The certificate is valid: 2020. 12. 21. - 2023. 06. 21. Ez a tanúsítvány az MSZT által évente kiadott fenntartási határozattal együtt érvényes. This certificate is valid together with the maintenance decision annually issued by MSZT. A tanúsítási okirat száma / Reg. number: 503/1342(2) Budapest, 2020. december 21.

Az első tanúsítás dátuma / Date of the first certification: 2014. 06. 26.

Pónyai György ügyvezető igazgató





THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

MSZT has issued an IQNet recognized certificate that the organization:

Diamond Diagnostics Inc. Magyarországi Fióktelepe

H-1044 Budapest, Óradna utca 6. Certified headquarters: H-1044 Budapest, Óradna utca 6.

has implemented and maintains a

Quality Management System

for the following scope

the manufacture of blood electrolyte systems, consumables and re-manufacture of clinical diagnostic equipment

which fulfils the requirements of the following standard:

ISO 13485:2016

Issued on: **21-12-2020** First issued on: **26-06-2014** Expires on: **21-06-2023**

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

Registration Number: HU-MSZT-503/1342(2)-1262(2)



Alex Stoichitoiu President of IQNet



György Pónyai General Director of MSZT

IQNet Partners*:

AENOR Spain AFNOR Certification France APCER Portugal CCC Cyprus CISQ Italy CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany EAGLE Certification Group USA FCAV Brazil FONDONORMA Venezuela ICONTEC Colombia Inspecta Sertifiointi Oy Finland INTECO Costa Rica IRAM Argentina JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland NYCE-SIGE México PCBC Poland Quality Austria Austria RR Russia SII Israel SIQ Slovenia SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia

* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-

certification.com



SmartLyte

The Most Advanced Electrolyte Analyzer

Distributed By:

BIOSISTEM-MLD S.R.L.



English, 中文, Français, Deutsch, Italian 이탈리아어, ポルトガル語, Português Русский, Español, Türkçe, Indonesia

Veterinary Options

Feline, Canine, Bovine, Equine, Swine, Ovine or Open

Parameter	Range	Reproducibility ¹	Resolution
Na+	40-200 mmol/L	$CV \le 1\%$ (120-160mmol/L)	0.1 mmol/L
K+	1.7-15 mmol/L	$CV \le 2\%$ (2.5-6 mmol/L)	0.01 mmol/L
Cl	50-200 mmol/L	$CV \le 2\%$ (85-130 mmol/L)	0.1 mmol/L
Са++	0.3-5.0 mmol/L	SD \leq 0.02 mmol/L (0.8-1.5 mmol/L)	0.001 mmol/L
Li+	0.2-5.5 mmol/L	SD \leq 0.02 mmol/L (0.4-1.3 mmol/L)	0.001 mmol/L
Urine ² Na ⁺	3-300 mmol/L	$CV \leq 2\%$ (100-250 mmol/L)	0.1 mmol/L
K+	5-120 mmol/L ³	$CV \le 1\%$ (10-60 mmol/L)	0.01 mmol/L
CI	15-300 mmol/L	$CV \leq 3\%$ (100-250 mmol/L)	0.1 mmol/L

1-Typical Within Run (n=30) Blood, Serum, Plasma 2-Calcium and Lithium are not typically measured in urine samples 3-(60-120) requires additional dilution

Power

100-240V ~ 50/60 Hz (self adjusting) 1.6 A max, 50 Watts max Size & Weight

13.2 x 12.4 x 12 in or 335 x 315 x 295 mm 14 lbs or 6 kgs

Ambient Conditions

Room temperature: 15-32°C/60-90°F Humidity <85%

Not Commercially Available in the United States

BioSistem - MLD S.R.L.

16/1 Albisoara street, ap. 7, Chisinau, Republic of Moldova, MD-2001 +373 22 808 517 • biosistem.mld@gmail.com • www.biosistem-mld.com

A4/07.17







Certificate No. Q5 090700 0029 Rev. 00

Holder of Certificate:

i-SENS, Inc. 43, Banpo-daero 28-gil, Seocho-gu Seoul 06646 REPUBLIC OF KOREA

Certification Mark:



Scope of Certificate:

Design, Development, Production and Distribution of Blood Glucose Monitoring System, Electrolyte Analyzer, Blood Ketone Monitoring System, HbA1c Analyzer, GAS Analyzer and Lancing Device

The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system, which meets the requirements of the listed standard(s). See also notes overleaf.

Report No.:

74955792

Valid from: Valid until: 2020-04-01 2023-03-31

Date,

2020-03-09

Christoph Dicks Head of Certification/Notified Body

A4 / 07 17

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Certificate No. Q5 090700 0029 Rev. 00

Applied Standard(s): EN ISO 13485:2016 Medical devices - Quality management systems -Requirements for regulatory purposes (ISO 13485:2016) DIN EN ISO 13485:2016

Facility(ies): i-SENS, Inc. 4th floor, 39-36, Nonhyeon-ro 46beon-gil, Namdong-gu, Incheon 21655, REPUBLIC OF KOREA

> i-SENS, Inc. 27-36, Gwangun-ro, Nowon-gu, Seoul 01891, REPUBLIC OF KOREA

i-SENS Wonju Factory 94-1, Donghwagongdan-ro, Munmak-eup, Wonju-si, Gangwon-do 26365, REPUBLIC OF KOREA

i-SENS, Inc. 27-34, Gwangun-ro, Nowon-gu, Seoul 01891, REPUBLIC OF KOREA

i-SENS Songdo Factory 12, Harmony-ro 275beon-gil, Yeonsu-gu, Incheon 22014, REPUBLIC OF KOREA

i-SENS, Inc. 43, Banpo-daero 28-gil, Seocho-gu, Seoul 06646, REPUBLIC OF KOREA

i-SENS Wonju Factory 2 200, Gieopdosi-ro, Jijeong-myeon, Wonju-si, Gangwon-do 26354, REPUBLIC OF KOREA

i-SmartCare (10)

Blood Gas Analyzer

Specifications

Operating Parameters

Reportable Range pH : 6.500~7.800 pCO₂: 5.0~150.0 mmHg *p*O₂ : 10~680 mmHg Na+ : 80~200 mmol/L K⁺ : 0.1~20.0 mmol/L Ca²⁺ : 0.25~5.00 mmol/L Cl-: 50~150 mmol/L Glu : 5~500 mg/dL Lac : 0.2~15.0 mmol/L Hct : 10~70%

Calculated Parameters $pH(T), pCO_2(T), pO_2(T), tCO_2,$ HCO3⁻, HCO3⁻(std), BE(ecf), BE(B), Anion gap(K), tHb, sO2 Ca²⁺(7.4), pO₂(A-a)

Sample Type Heparinized whole blood

Sample Volume 100 µL

Sample Analysis Time 50 seconds

Cartridge

Test Panel Options CarePak 106 pH, Na⁺, K⁺, Ca²⁺, Cl⁻, Hct

 CarePak 108 pH, pCO₂, pO₂, Na⁺, K⁺, Ca²⁺, Cl⁻, Hct

 CarePak 110 pH, pCO₂, pO₂, Na⁺, K⁺, Ca²⁺, Cl⁻, Hct, Glu, Lac

Test Volume Options 50 tests / 2 or 3 weeks 100 tests / 2 or 3 weeks 200 tests / 2 or 3 weeks 300 tests / 2 or 3 weeks

Storage Condition 15~25 ℃

Components

- Micro-sensor card · Cal1, Cal2, Cal3
- Reference solution
- Sampler & waste bag
- Valve and tubing
- EEPROM

Dimensions / Weight 182(W) x 148(H) x 100(D) mm

1.7 kg

Instrument & Connectivity

Microsoft® Windows® IoT10 Enterprise

Computer 1.1 GHz dual core processor SSD 32GB storage

9 inch TFT LCD touch screen wide view angle

Display

Printer 2 inch thermal printer (built-in) **Dimensions / Weight** 269(W) x 391(H) x 255(D) mm 8.4 kg (accessories excluded)

System Connectivity Bidirectional LIS/HIS communication

Power Interface

Operating System

Voltage 100~240 Va.c.

Frequency 50/60 Hz

Power Adaptor Input: 100~240 Va.c., 1.5 A, 50/60 Hz, Max. 1.5A Output: +24 Vd.c., Max. 2.7A

Battery Operation Max. 2 hours

Interface

- 650nm Laser Diode scanner (built-in) • 2 x USB 3.0
- Serial port (RS-232)
- Ethernet port (RJ45)

HDMI interface (external display)



i-SENS, Inc.

43, Banpo-daero 28-gil, Seocho-gu, Seoul 06646, Korea TEL +82-2-910-0722 FAX +82-2-941-0868 www.i-sens.com

AD138 BEV2 07/2019

i-SmartCare(10) Blood Gas Analyzer







i-SmartCare 10

Maintenance Free

- All-in-One multi test cartridge contains all reagents & consumables
- Self-cleaning sample probe helps maintain sample integrity

Fast, Safe & Reliable Results

- EEPROM chip enables automatic cartridge information loading
- Fast patient test results: 50 seconds
- Fully automated calibration and system performance monitoring

Easy to Use & Simple Operation

- Syringe and capillary samples without adapters
- Built-in sample barcode scanner & printer
- Internal battery provides up to 2 hours of full operation without AC power
- One-touch design

Connectivity Management

- Analyzer monitoring including QC status
- Real-time data transfer to HIS/LIS
- Middleware keep strict guality control and strict data security & integrity

Efficiency

- Wide range of available cartridges (by analyte menu and volumes) allows for best-fit to testing needs
- Light weight and small foot-print

Care Connect®



Intuitive Touch Screen Interface

- Microsoft[®] Windows[®] 10 operation
- 9 inch TFT LCD touch screen
- Wide view angle

Intelligent Sample Probe

- Syringe or capillary position depending on sample type selection
- Rinses out septum and probe after each sample to avoid carry-over
- Illuminated sampling area for low-light testing environments
- Exposed probe only during sampling (automatically retracts for safety purposes)



Rechargeable Internal Battery

• Up to 2 hours of sample measurement





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 All-in-One Multi Test Cartridge Technology Each cartridge contains all reagents, sensors, calibration solutions and complete fluidic components from sampler to waste bag required for optimal testing

Built-In Printer

 Hard copy printout of patient and QC calibration results

External Input / Output Ports

- Serial port (RS-232)
- Ethernet port (RJ45)
- 2 x USB 3.0
- HDMI Interface (external display)

Built-In Barcode Scanner

 Internal barcode scanner enters samples and operator ID automatically

Built-In EEPROM Chip

- Automatic cartridge information recognition
- Prevention of copy reagents
- · Ensures valid cartridges and quality of reagents are used

Micro Sensor Technology

Micro sensors fabricated on i-SENS' unique screen-printed electrodes allow for accurate analysis of samples at small volumes