

# Installation Qualification, Performance, Qualification and Operational Qualification

# ABX Micros 60/ ES60

(Serial no: 703ESOH11096)

Fully Automated Hematology Analyzer

For

# PATHKIND DIAGNOSTICS

**BULANDSAHAR** 





Medical

#### #246, Okhla Industrial Estate, Phase III, New BULANDSAHAR 110020, India, Tel: 011 4646 5000.

Visit us: http://www.horiba.com/in/

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#### **General Instructions:**

- HORIBA India Pvt. Ltd. is responsible for installation of Micros ES60, Fully Five Part Automated Hematology Analyzer, at PATHKIND Diagnostic Center, BULANDSAHAR as per the attached protocol.
- An authorized HORIBA India Pvt. Ltd., representative will physically check the system and proceed for the installation.
- This installation protocol will be followed as specified by the manufacturer.
- Installation checks will also be performed to verify that the instrument has been installed with proper connections and utilities.
- After the installation of the system, Instrument calibration & QC will be performed by the authorized HORIBA India Pvt. Ltd. representative.
- An authorized HORIBA India Pvt. Ltd. representative will also perform the precision check on the system to check if it is as per the claim of the manufacturer.
- The results obtained for Calibration, QC & Precision checks will be verified by the qualified trained employee of PATHKIND Diagnostic Cente, BULANDSAHAR along with an authorized HORIBA India Pvt. Ltd., representative.
- On completion of the Installation all the necessary documents of the System checks will be used
  to evaluate the instrument installation in accordance with the manufacturer's protocol and
  intended use.
- An authorized HORIBA India Pvt. Ltd., representative will verify the documents of the system checks and approve the same.
- Successful completion of this protocol will verify that this instrument has been installed in accordance with the intended usage.

#### Report Sign Off

Prepared by:	HORIB	HORIBA Medical - HORIBA India Pvt. Ltd.			
Name:	SANJE	SANJEEV SINGH			
Title:		Sign:	Date:		
Application Specia	alist	list 27/7/2017			
Reviewed by:	PATHK	PATHKIND Diagnostic, BULANDSAHAR			
Name:	DR. FA	DR. FAHEEM JAVED			
Title: PATHOLOGIST		Sign:	Date: 27/7/2017		
Approved by:	PATHK	PATHKIND Diagnostic, BULANDSAHAR			
Name:	DR. FA	DR. FAHEEM JAVED			



Title: PATHOLOGIST

Sign:

Date:

# HORIBA Medical

# ABX Micros 60/ ES60

(Serial no: 703ESOH11096)

Fully Automated Hematology Analyzer

**Installation Qualification** 

For

# **PATHKIND DIAGNOSTICS**

BULANDSAHAR



# #246, Okhla Industrial Estate, Phase III, New BULANDSAHAR 110020, India, Tel: 011 4646 5000.

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# A. Installation Qualification

### 1. Installation Requirement :

Sr. No.	Description	Complianc e (Yes/No)	Verified by & Date
1.	Environmental conditions: Indoor Location not exposed to sunlight, water and vibration free platform. Temperature of 16°C to 34°C and maximum relative humidity of 80%.	YES	27/7/2017
2.	Physical Space Requirement: 36(W) x 36(D) x 53(H)cm with at least 20 cm space at the back of the instrument from the wall.	YES	27/7/2017
3.	Electrical Requirements: Power supply - 100Vac- 240 Vac +/- 10%. Power consumption – Maximum 150VA with earth less than 3 V.	YES	27/7/2017
4.	UPS connection available.	YES	27/7/2017

# 2. The instrument has been checked for the following:

Sr. No.	Verification	Provided (Yes/No)	Verified by & Date
1.	Instrument is identified Instrument Serial No.: 404 PNDF 0332	YES	27/7/2017
2.	Manufacturer's specifications: Technical and Physical Requirement	YES	27/7/2017
3.	Accessories / consumables are listed as per checklist ( Provided along)	YES	27/7/2017
4.	System checked for any External / physical damage.	YES	27/7/2017
5.	Instrument User Manual (Soft Copy)	YES	27/7/2017



### 3. Equipment Description :

Micros ES60, Fully Automated Hematology Analyzer

Verified Yes/No	Verified by / Date
YES	27/7/2017
	Yes/No YES YES YES YES YES YES YES YES

#### 4. Accessories/Consumables:

The accessories were supplied with the instrument as per the check list. Check &verified in case they are found to be in order.

Qualified Trained employee name	Verified By	Date	
SANJEEV SINGH	DR. FAHEEM JAVED	27/7/2017	
	1.7		
		п	
	0		

HORIBA	HOR	IBA India Priv	ate Limited
Medical			

#### 5. Preventive Maintenance:

The routine preventive maintenance of the system will be carried out by an authorized HORIBA India Pvt. Ltd., engineer at a specified time interval as recommended by the manufacturer.

#### 6. Spare Parts:

HORIBA India Pvt. Ltd strongly recommends the end user to maintain a basic consumable parts onsite to minimize down time due to minor failures. Spare parts as provided in the installation kit.

#### **B.** Installation Procedure:

- 1. Putting the system at the predefined and pre inspected location (Having suitable Working Conditions).
- 2. Removal of the internal packing material of the system.
- 3. Place the Instrument on the bench top (Vibration free).
- 4. Connect the Power cord to the Micros ES60.
- 6. Turn on the inbuilt Printer.
- 7. All the operating software has been loaded in to Micros ES60.
- 8. Now from back side of the instrument turn the power switch ON. Micros ES60 goes through its power up and self-test sequence.
- 9. The Micros ES60 login menu is displayed after the Start up cycle is completed. Enter the credentials.



# C. INSTALLATION CERTIFICATE:

**Instrument Name** 

: MICROS ES60.

**Serial Number** 

: 703ES0H11096

Customer Details with complete address

: PATHKIND Diagnostic BULANDSAHAR

Installation Date

: 27/7/2017

Warranty expires on

: 27/7/2017

Prepared by:	HORIBA Medical - HORIBA India Pvt. Ltd.			
Name:				
Title:		Sign:	Date:	
Application Speciali	st	27/7/2017		
Reviewed by:	PATHKIND Diagnostic Center, BULANDSAHAR			
Name:	DR. FAHEEM JAVED			
Title: PATHOLOG	IST	Sign: 1	Date:	
			27/7/2017	
Approved by:	PATHKIND Diagnostic Center, BULANDSAHAR			
Name:	DR. FAHEEM JAVED			
Title: PATHOLOGIST		Sign:	Date:	
		1.7	27/7/2017	

#### **Deviation:**

<u>Conclusion:</u> Instrument has been qualified for Installation. Hence it has been taken for Operational Qualification.



# HORIBA Medical

# ABX Micros 60/ ES60

(Serial no: 703ESOH11096)

Fully Automated Hematology Analyzer

**Operational Qualification** 

For

**PATHKIND DIAGNOSTICS** 



# **BULANDSAHAR**

#246, Okhla Industrial Estate, Phase III, New BULANDSAHAR 110020, India, Tel: 011 4646 5000.

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#### A. Operational Qualification

#### 1. Instrument Identification:

Instrument Name

**MICROS ES60** 

Serial Number

703ES0H11096

2. <u>Following is the list of actions performed and verified for running the system routinely.</u>

Sr. No.	Test Name	Test Purpose	Method	Observation	Verified Sign/Date
1.	SYSTEM SWITCH ON	TO CHECK THE ERROR FREE POWER UP.	Switch on the main, switch on the system. Login into Pentra Application software.Start up cycle is performed .Login in as User and check for the Screen Errors.	OK	27/7/2017
2.	STARTUP CYCLE	TO CHECK THE BACK GROUND IS OK.	Run a startup cycle from the main menu; check if the background is in the acceptable range.	OK .	27/7/2017
3.	PRINTER TEST	TO CHECK STATUS OF THE PRINTER.	Initiate a self-test of printer or run a sample to check the print.	OK	27/7/2017
4.	REAGENT STATUS	TO CHECK ADEQUATE REAGENT IS AVAILABLE FOR ANALYSIS	Manually check in the reagent bottles or else change the reagent from the Status Menu.	OK	27/7/2017
5.	SAMPLE	TO CHECK	1. To run Stat/ Manual sample,	OK	27/7/2017

# HORIBA

Medical

	ANALYSIS	PROPER FUNCTIONING OF SAMPLE ANALYSIS	press on sample identification and enter the sample ID and press on validate.		
6.	ARCHIVE AND CURRENT REPORTS	TO RECOVER THE SAMPLE RESULT FROM ARCHIVE, AND CURRENT REPORTS	Press on Results History icon and view the current results. To view archived reports, Select Archive results and select the date of the reports and view the report.	ОК	27/7/2017
7.	QUALITY CONTROL DATA	TO RECOVER QUALITY CONTROL DATA AND LJ GRAPH	Press on QC Icon from the Main Menu and select the Lot No. and press on Print Icon to print LJ graph. To view on QC Runs ,Click on Datas.	OK	27/7/2017
8	FLAGS AND ALARMS	TO CHECK THE PROPER FLAGS AND ALARMS FOR SAMPLES	Run sample to verify alarms and flags.	OK	27/7/2017

### B. Operational Training Record

**Operator Training:** The users responsible for the operation of this instrument will be trained on the proper usage of the system. Training will focus on the basic operation and maintenance of the system. The training of the operators will be documented and the training records will be filled as indicated below:

Sr. No	Operators	Designation	Name & Sign of the Trainer.	Date
1.	MR. GIRDHAR KUMAR	SSO	SANJEEV	27/7/2017
2.	MR. KAUSHAL KUMAR	SO	SANJEEV SANJEEV	27/7/2017 27/7/2017
3.	MR. OSHO BHARDWAJ	JSO PATHOLOGIS	SANJEEV	21/1/2017
4.	DR FAHEEM JAVED	T	SANJEEV	27/7/2017
5.		11 3 m		
6.				
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8.				
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10.				
11.	- igas a j	100		
12.	N a A 1			
13.	en la	if it		

HORIBA _	НО	RIBA India Private Limited
14.		
15.		
16.		

### C. Operator Maintenance Protocol

Maintenance and Troubleshooting: Perform Concentration Cleaning as advised by the HORIBA Medical Representative .Run a Shutdown cycle before switching off the analyzer .



### D. OPERATIONAL CERTIFICATE:

**Instrument Name** 

: MICROS ES60.

**Serial Number** 

: 703ES0H11096

Customer Details with complete address

: PATHKIND Diagnostic BULANDSAHAR

**Installation Date** 

: 27/7/2017

Warranty expires on

:27/7/2017

Prepared by:	HORIBA	HORIBA Medical - HORIBA India Pvt. Ltd.			
Name:					
Title:		Sign:	Date:		
Application Speciali	st		27/7/2017		
Reviewed by:	PATHKIND Diagnostic Center, BULANDSAHAR				
Name:	DR. FAHEEM JAVED				
Title: PATHOLOGIST		Sign:	Date:		
		16/1	27/7/2017		
Approved by:	PATHKIND diagnostic Center, BULANDSAHAR				
Name:	DR. FAHEEM JAVED				
Title: PATHOLOGIST		Sign: // ~~~~~~~~~	Date:		
		W	27/7/2017		

**Deviation:** 



Conclusion: Instrument has been qualified for Operational. Hence it has been taken for Performance Qualification.

URIBA Medical

# ABX Micros 60/ ES60

(Serial no: 703ESOH11096)

Fully Automated Hematology Analyzer

# **Performance Qualification**

For

# **PATHKIND DIAGNOSTICS**



# **BULANDSAHAR**

#246, Okhla Industrial Estate, Phase III, New BULANDSAHAR 110020, India, Tel: 011 4646 5000.

Visit us: http://www.horiba.com/in/

# A. Performance Qualification

#### A. Instrument Identification:

Instrument Name

: MICROS ES60.

Serial Number

703ES0H11096.

# B. Following is the list of test to be performed and verified

Blank Reference cycle: To verify the Startup Cycle of the instrument.

Serial No: 703ES0H11096

rial No: 703ES0H11096			Verified by
Parameters	Acceptable Range	Observed Value	Sign/Date
WBC 10³/mm³	≤ 0.3 ×10³/ mm³	0	27/7/2017
RBC 10 <sup>6</sup> /mm <sup>3</sup>	≤ 0.02× 10°/mm³	0	27/7/2017
HGB g/Dl	≤ 0.3 g/dl	0	27/7/2017
PLT 10³/mm³	≤ 10×10³/mm³	0	27/7/2017



Conducted By:

Verified By:

<u>Calibration</u>: To calibrate the Instrument using calibrator (ABX MINOCAL) and verify the same.

Procedure: Go to Quality Assurance icon on main screen and then Calibration icon. Run Calibrator (ABX MINOCAL) 6 times, without taking the values of first run, calibrate the instrument using average of the last 5 runs. Run Calibrator as a sample to verify the calibration. Lot: CX413; Expiry: 05/09/2017

Serial No: 703ES0H11096

Parameter	Target Value (As per Kit Insert)	Mean Value	Observed CV%	Acceptance CV%	Comments
WBC	9.6	9.8	1.30	<2%	PASSED
RBC	4.60	4.60	0.84	<2%	PASSED
HGB	13.7	13.5	0.67	<1%	PASSED
НСТ	38.3	38.4	1.17	<2%	PASSED
PLT	252	243	2.55	<5%	PASSED

Conducted By:

Verified By:



# ALL TRILEVEL QC &PRECISION WERE FOUND WITHIN RANGE AS PER KIT INSERT DURING INSTALLATION.

<u>Carryover Study:</u> Carry over is checked by running quality controls (Low & high) in 3 replicates & getting CV% in within acceptance.

Carry Over %= (L1-L3)\*100/(H3-L3).

Serial No: 703ES0H11096

Parameters	WBC 10³/mm³	RBC 106/mm <sup>3</sup>	HGB g/dL	нст %	PLT 10³/mm³
Carry Over	0	0.36	0	0	-1.25
(%) Manufacturer	<1%	<1%	<1%	<1%	<1%
acceptable CV%		Passed	Passed	Passed	Passed
Status	Passed	rasscu	1 43504		

Conducted By:

Verified By:

# **B. PERFORMANCE CERTIFICATE:**

Instrument Name

: MICROS ES60.

Serial Number

: 703ES0H11096.

**Customer Details** 

with complete address

: PATHKIND Diagnostic Centre,

**Installation Date** 

: 27/7/2017

Warranty expires on

:26/07/2022

Prepared by:	HORIBA Medical -	- HORIBA India Pvt. Ltd.	



Medical

Name:		
Title:	Sign:	
Application Speciali	st	·
Reviewed by:	PATHKIND Diagno	ostic Center, BULANDSAHAR
Name:		
Title:	Sign:	Date:
Approved by:	PATHKIND Diagno	ostic Center, BULANDSAHAR
Name:		
Title:	Sign:	Date:
1		

**Conclusion:** Instrument has been qualified for Performance.

# **ATTACHMENTS**

Attachment No	Document Title	Page Nos.	Verified By Sign/Date
Attachment No	Dodanis		

HORIBA _		HORIBA India Private Limited
4		
A Committee of the Comm		
at Ax	1	

Date: 01/02/2022 11:47:27

User : labtech

### PATIENT RESULT REPORT

SID : R1 PID Name Firstname :

Type : Man Department :

Local

Complete: 01/02/2022 11:47:

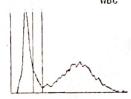
13

Operator : labtech

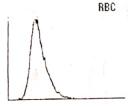
### RESULT

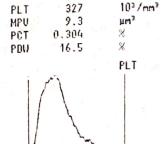
#### Analyser Alarms Analysis Alarms

WBC	7.2	103/mm3
LYMX	34.8	%
MON®	5.3	%
GRA2	59.9	%
LYM#	2.50	$10^{3}/\text{mm}^{3}$
MON#	0.30	$10^{3}/\text{mm}^{3}$
GRA#	4.40	103/mm3
		HBC



RBC	4.60		10^6/
HGB	10.0	L	omm³ o/dl
HCT	33.1	L	×
MCU	72	L	hw <sub>3</sub>
MCH	21.7	l.	29
мене	30.0	L	g/dl
RDU-CU	17.6	Н	%
RDW-SD	45		πω <sub>3</sub>
			DDC





Date: 01/02/2022 11:50:46

User : tech

### PATIENT RESULT REPORT

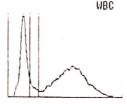
SID	:	R2	
PID	:		
Name	:		
Firstname	:		
Type	:	Hare	
Department	t	:	
Local	:		
Complete:	0	1/02/2022	11:47:
Complete:	Ü	1/02/2022	11:47:

Operator : tech

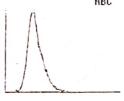
#### RESULT

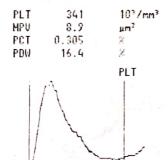
#### Analyser Alarms Analysis Alarms

WBC	7.5	103/mm3
LYMX	33.5	%
HON%	4.4	×
GRA2	62.1	%
LYM#	2.50	103/mm3
MON#	0.30	$10^{3}/\text{mm}^{3}$
GRA#	4.70	$10^{3}/\text{mm}^{3}$
		LIDO



RBC	4.53		10^6/
HGB	9.2	L	9/41
HCT	32.6	Ĺ	%
MCU	72	L	μm <sup>3</sup>
MCH	21.9	L	. 09
HCHC	30.3	L	a/dl
RDW-CU	17.1	Н	%
RDW-SD	44		μm³
			RBC





Date: 01/02/2022 11:49:40

User : labtech

# PATIENT RESULT REPORT

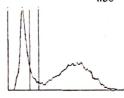
SID	:	R3	
PID	:		
Name	:		
Firstname	:		
Type	:	Man	
Department	t	:	
Local	:		
Complete:	0	1/02/2022	11:49:

31 Operator : labtech

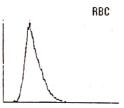
### RESULT

#### Analyser Alarms Analysis Alarms

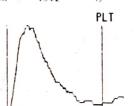
WBC	7.1	$10^{3}/\text{mm}^{3}$
LYM%	35.2	%
MONX	5.4	×
GRA?	59.4	%
LYM#	2.40	103/mm3
MON#	0.30	$10^{3}/\text{mm}^{3}$
GRA#	4.40	103/mm3
		WBC



RBC	4.53		10^6/ mm³
HGB	10.1	L	g/dl
HCT	33.1	L	2
MCU	73	L	$\mu m_3$
MCH	22,3	L	29
HCHC	30.6	L	g/dl
RDW-CU	17.8	Н	%
RDW-SD	47		μω <sub>3</sub>



PLT	332	103/mm3
MPU	9.2	μm³
PCT	0.306	24
PDW	16.2	%
		PLT



Date: 01/02/2022 11:57:20

User : tech

# PATIENT RESULT REPORT

: R4 SID PID Name

Firstname : Man Type Department :

Local Complete: 01/02/2022 11:56:

Operator : tech

#### RESULT

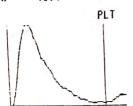
Analyser Alarms Analysis Alarms

WBC	7.4	103/mm3
LYMX	33.1	×
MON	4.3	%
GRAN	62.6	%
LYM#	2.40	103/mm3
MON#	0.30	10³/mm³
GRA#	4.70	$10^{3}/\text{mm}^{3}$
		WBC

RBC	4.52		10^6/
нов	9.9	L	g/dl
HCT	32.4	L	×.
MCU	72	L	μm³
MCH	21.8	L	29
HCHC -	30.4	L	g/dl
RDW-CU	17.4	Н	×
RDW-SD	45		$\pi m_3$
			888

RBC

103/mm3 362 PLT μm³ 8.9 MPU 2 PCT 0.324% PDW 15.1 PLT



Date: 01/02/2022 11:03:25

User : lattech

### PATIENT RESULT REPORT

: R5 SID PID Name Firstname Type Department Local

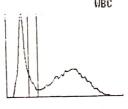
Complete: 01/02/2022 12:01:

Operator : labtech

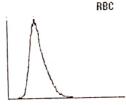
#### RESULT

Analyser Alarms Analysis Alarms

WBC	7.1	103/mm3
L YMX	35.3	%
MONS	5.6	%
GRA%	59.1	%
LYM#	2.50	$10^{3}/\text{mm}^{3}$
MON#	0.30	103/mm3
GRA#	4.30	10³/mm³
		MRC



RBC	4.52		10^6/
HGB	10.0	L	g/dl
HCT	37.9	L	X
MCU	73	L	$\mu m_3$
MCH	22.0	L	PQ
MCHC	30.3	L	g/dl
RDW-CV	18.0	Н	%
RDW-SD	47		$\mu m_3$
			200



331

PLT

PLI	331	10 /111
MPU	9.1	μω <sub>3</sub>
PCT	0.301	%
POW	16.2	%
		PLT
i,	بالحر	
1/		
1/	a de la comoción de l	
1/		

103/mm3

Date: 01/02/2022 12:00:38

User : tech

# PATIENT RESULT REPORT.

: R6 SID PID Name Firstname : Type : Man Department : Local

Complete: 01/02/2022 12:00:

30

Operator : tech

#### RESULT

Analyser Alarms Analysis Alarms

WBC	7.5	103/mm3
L YM2	34.1	%
MON%	5.1	8
GRAX	60.8	28
LYM#	2.50	103/mm3
MON#	0.30	103/mm3
GRA#	4.70	103/mm3
		⊎RC

RBC	4.52		10^6/
HGB	9.9	L	g/d1
HCT	32.7	L	%
MCU	72	L	μm³
MCH	21.9	L	22
MCHC	30.2	L	g/dl
RDW-CU	17.4	Н	×
RDW-SD	45		μω <sub>3</sub>

RBC

PLT 354 103/mm3 MPU 9.2 μm³ PCT 0.325 × PDW 13.7 × PLT

Date : 01/02/2022 12:05:44 User : tech

#### PATIENT RESULT REPORT

SID : R7 PID Name Firstname: Type : Man

Department : Local

Complete: 01/02/2022 12:02:

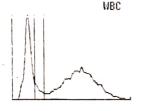
90

Operator : tech

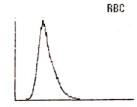
#### RESULT

#### Analyser Alarms Analysis Alarms

WBC	7.6	$10^{3}/\text{mm}^{3}$
LYMX	33.6	8
MON%	4.4	%
GRA%	62.0	%
LYM#	2.50	$10^{3}/\text{mm}^{3}$
MON#	0.30	$10^{3}/\text{mm}^{3}$
GRA#	4.80	$10^{3}/\text{mm}^{3}$
		Line



RBC	4.50		10^6/ mm³
HGB	9.9	L	g/d1
HCT	32.7	l.	%
MCU	73	L	$\pi m_3$
MCH	22.1	L	22
MCHC	30.3	L	g/dl
RDW-CV	17.2	Н	%
RDW-SD	45		$\pi m_3$



PLT	345	103/mm	š
MPV	9.0	μm³	
PCT	0.311	. % %	
PDW	15.9	×	
		PLT	

RIID Parameters for

Date: 01/02/2022 12:06:23

User : tech

#### PATIENT RESULT REPORT

SID	:	R8
PID	:	
Name	:	
Firstname	:	
Type	:	Mar
Department		:
Local	•	

Complete: 01/02/2022 12:03:

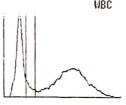
42

Operator : tech

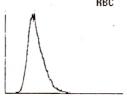
#### RESULT

#### Analyser Alarms Analysis Alarms

WBC	7.4	103/mm3
L YM%	34.4	%
MONX	4.6	%
GRA%	61.0	×
LYM#	2.50	$10^{3}/\text{mm}^{3}$
MON#	0.30	103/mm3
GRA#	4.60	103/mm3
		MRC



RBC	4.47		10^6/ mm³
HGB	9.9	L	g/dl
HCT	32.4	L	%
MCU	72	L	μm <sup>3</sup>
MCH	22.2	L	pg
MCHC	30.6	L	g/dl
RDW-CU	17.7	Н	%
RDW-SD	46		μω3
			BBC

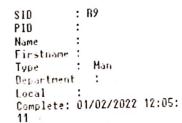


PLT	342	103/mm3
MPU	8.8	μm³
PCT	0.301	%
PDW	14.6	×
		PLT
	1	
11	~~	

RIIN Parameters for

Date : 01/02/2022 12:07:01 User : tech

### PATIENT RESULT REPORT

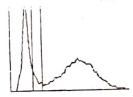


Operator : tech

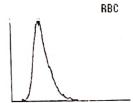
#### RESULT

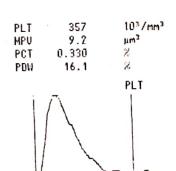
#### Analyser Alarms Analysis Alarms

WBC	7.4	10³/mm³
LYMX	33.4	%
MONX	4.6	%
GRA%	62.0	%
LYM#	2.40	103/mm3
MON#	0.30	103/mm3
GRA≠	4.70	$10^{3}/\text{mm}^{3}$
		WBC



RBC	4.48		10^6/
HGB	9.9	L	g/dl
HCT	32.4	L	×
MCU	72	L	$\mu m_3$
MCH	22.0	L	Pg
MCHC	30.5	L	g/dl
RDW-CU	17.5	Н	%
ROW-SD	45		μm³





Date : 01/02/2022 12:07:52 User : labtech

# PATIENT RESULT REPORT

SID PID : R10 Name Firstname : Man

Type Department

Local

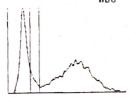
Complete: 01/02/2022 12:07: 37

Operator : labtech

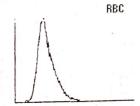
# RESULT

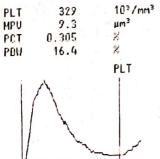
#### Analyser Alarms Analysis Alarms

WBC	7.0	103/mm3
LYMX	34.6	8
MONZ	5.2	%
CRA%	60.2	%
LYM#	2.40	$10^{3}/\text{mm}^{3}$
MON#	0.30	$10^{3}/\text{mm}^{3}$
GRA#	4.30	$10^{3}/\text{mm}^{3}$
		URC



RBC	4.51		10^6/
HGB	10.0	L	mm³ g/dl
HCT	37.9	L	2,
MCU	73	L	μm³
MCH	22.2	L	99
MCHC	30.4	L	g/dl
BDV-CV	17.7	H	%
RDW-SD	46		μω <sub>3</sub>





Date : 01/02/2022 12:09:19 User : labtech

# PATIENT RESULT REPORT

210	:	R11
PID	:	
Name	:	
Firstname	:	
Type	:	Ma
Department		:

Local Complete: 01/02/2022 12:09:

Operator : labtech

### RESULT

#### Analyser Alarms Analysis Alarms

WBC	7.0	103/mm3
LYM%	35.1	%
MON%	5.6	*
GRA%	59.3	*
LYM#	2.40	$10^3/\text{mm}^3$
MON#	0.30	103/mm3
GRA#	4.30	103/mm3

WBC

RBC	4.54		10^6/ mm³
HGB	10.0	L	mm- g/dl
		L	37.01
HCT	32.9	1.	8
MCU	72	L	$\mu m_3$
MCH	22.1	L	pg
MCHC	30.6	L	g/dl
RDW-CU	17.3	Н	%
RDW-SD	45		μm <sup>3</sup>

RBC

103/mm3 PLT 329 9.2 0.305 MPU πw3 PCT % PDW % 16.6 PLT





Date: 30/05/2021

# Calibration Certificate

**Customer Name: Pathkind Labs** 

Address of Customer: Bulandshahar

Model

: Easylyte +

Serial No.

: 55777

**Calibration Done Date** 

: 30/05/2021

**Calibration Due Date** 

: On or Before 29/05/2022

This is to certify that we have calibrated the Electrolyte Analyzer Model: <u>Easylyte + bearing</u> Sr. No. 55777 and on inspection of the instrument it is observed that the results are well within the range and instrument is working fine

Thanking you,

For

Transasia Bio-Medi

Rajnish Singh

Sr. Service Enginee



nsasia.co.in



### **HORIBA India Private Limited**

246, Okhla Industrial Estate Phase-III,

New Delhi 110020, India

Tel . +91 (11) 4646 5000 / 4669 5001

Fax : +91 (11) 4646 5020 http://www.horiba.com

CIN: U73100DL2006PTC153232

HIN/MED/2021-2022/100517 3<sup>RD</sup> FEB 2022

# CALIBRATION CERTIFICATE

This is to certify that the Hematology Analyzer MICROS ES60 bearing serial number: 703ESOH11096installed at PATHKIND BULANDSAHAR as calibrated on 1ST FEB 2022.

Calibrator

: ABX MINOCAL

Lot No.

: CX467

Expiry Date : 05<sup>th</sup> MARCH 2022

The reports of Blank Cycle, Repeatability and Calibration Values were all found in acceptable range.

Next calibration cycle is due on 31<sup>ST</sup> Jan 2023.

Shrish Dixit

(Head- Products & Marketing) For Horiba India Pvt. Ltd.

