

CALIBRATION CERTIFICATE

Certificate no.0 116

Customer: Zenrise(Likhitha Diagnostics)
Miyapur, HYDERABAD

Date of Calibration: 10-01-2022
Working Temperature: $25^{\circ} \pm 1^{\circ}$
Due Date: 09-01-2023

Instrument: Automated 5 Part Haematology Analyzer Serial no. DM11051809001.
Model: "DH 76"
Manufacturer: SHENZHEN DYMIND BIOTECHNOLOGY CO. LTD.

Acu Medica Lab Systems Pvt. Limited is an organization dealing with Dymind Auto Haematology Analyzer. It has a technically qualified Technical team to ensure trouble free operation. The Described instrument has been checked and calibrated under the ambient conditions stated above.

Power Supply			
UPS Supply	Expected Reading	Measured Reading	Remarks
Phase to Neutral	230 ± 10 VAC	232 VAC	Within Limits
Phase to Earth	230 ± 10 VAC	234 VAC	
Neutral to Earth	0 - 5 VAC	2 VAC	

Test Point Voltages	Measured Reading	Remarks
5 ± 0.15 VDC	5.0 VDC	Values are within Limits
12 ± 0.25 VDC	11.52 VDC	
-12 ± 0.25 VDC	-11.71 VDC	
56 ± 6.0 VDC	55.60 VDC	
3.3 ± 0.13 VDC	3.26 VDC	

	Measured Value	Range	Remarks
HGB Zero (V)	0.0	0.0 – 0.20	Within Range
HGB Blank (V)	4.56	3.4 – 4.8	
Vacuum	184	175 – 205	

Test Point Voltages	Status	Remarks
Pressure	Normal	All Parts are working well & Adjustment not required.
Vacuum	Normal	
Filter	Normal	
Syringe Motor Check	Normal	
Rotation Motor Check	Normal	
Elevator Motor Check	Normal	
Printer/Recorder Check	Normal	

	Status	Remarks
System Initialization	Okay	Working Well.
Key Board Check	Okay	
Display Check	Okay	

Acu Medica Lab Systems (P) Ltd.

B-518/519, NandDham, 59, Sector-11, CBD Belapur, Navi Mumbai, 400614, Maharashtra, India

T: +91 22 6187 8888 W: www.acumedica.in

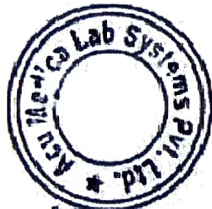
Parameters Tested	Target Values	Acceptable Range	Units
White Blood Cells (WBC)	9.29	± 0.20	$10^3 / \mu\text{L}$
Red Blood Cells (RBC)	4.53	± 0.08	$10^6 / \mu\text{L}$
Haemoglobin (HGB)	13.2	± 0.2	g / dL
Mean Cell Volume (MCV)	93.0	± 2.0	fL
Platelet (PLT)	257	± 12	$10^3 / \mu\text{L}$

This Instrument and the above measuring parameters are calibrated with R & D Systems Inc. **CBC-CAL PLUS** Haematology Calibrator. Lot no. PLUS0222 Exp. Date : 5/3/2022 The estimated uncertainty to be associated with the results is at a confidence level of approximately 99%.

REMARKS/DEVIATIONS IF ANY:

1. The calibration interval should be determined based on the user's requirements.
2. The user should be determining the stability of the instrument for its intended use.
3. The results stated in this certificate related only to the instrument calibrated.

Calibrated By:



UPPUTHOLLA ANKARAO

Area Service Manager - IVD (South)

M +91 8801737785.

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Hematology Analysis Report

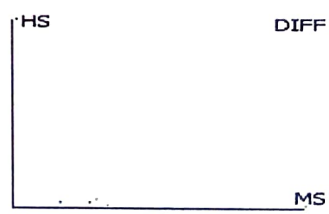
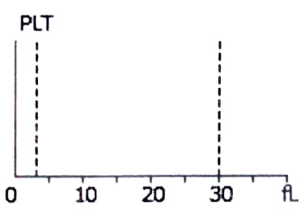
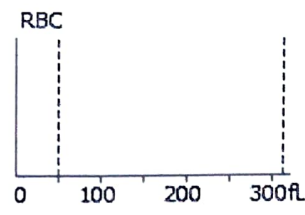
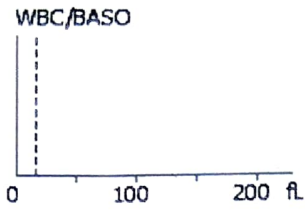
Blank

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: 1
Run Time: 2022/01/10 14:22
Diagnosis:

Parameter	Result	Ref. Range	Unit
1 WBC	0.00 ↓	3.50-9.50	10 ³ /uL
2 Neu%	***	40.0-75.0	%
3 Lym%	***	20.0-50.0	%
4 Mon%	***	3.0-10.0	%
5 Eos%	***	0.4-8.0	%
6 Bas%	***	0.0-1.0	%
7 Neu#	***	1.80-6.30	10 ³ /uL
8 Lym#	***	1.10-3.20	10 ³ /uL
9 Mon#	***	0.10-0.60	10 ³ /uL
10 Eos#	***	0.02-0.52	10 ³ /uL
11 Bas#	***	0.00-0.06	10 ³ /uL
12 *ALY#	***	0.00-0.20	10 ³ /uL
13 *ALY%	***	0.0-2.0	%
14 *LIC#	***	0.00-0.20	10 ³ /uL
15 *LIC%	***	0.0-2.5	%
16 RBC	0.00 ↓	3.80-5.80	10 ⁶ /uL
17 HGB	0.0 ↓	11.5-17.5	g/dL
18 HCT	0.0 ↓	35.0-50.0	%
19 MCV	***	82.0-100.0	fL
20 MCH	***	27.0-34.0	pg
21 MCHC	***	31.6-35.4	g/dL
22 RDW-CV	***	11.0-16.0	%
23 RDW-SD	***	35.0-56.0	fL
24 PLT	0 ↓	125-350	10 ³ /uL
25 MPV	***	6.5-12.0	fL
26 PDW	***	9.0-17.0	fL
27 PCT	***	0.108-0.282	%
28 P-LCR	***	11.0-45.0	%
29 P-LCC	****	30-90	10 ⁹ /L



**** means "Research use only, not for diagnostic use".

Submitter: Operator: admin Approver:
 Sampling Time: 2022/01/10 11:15 Delivery Time: 2022/01/10 11:15 Validated Time:
 Report Time: 2022/01/10 14:23 Remarks:

*The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.

CBC-DH

HEMATOLOGY CONTROL

Assay values and ranges provided by DYMIND

CONTROL

LOT DH2201

2021-12-06

2022-03-05

Instrument	Parameter	Unit	Low		Normal		High	
DYMIND DH71, DH76, (Technical File Version A4.1to A10.3) DH51, DH53, DH56, (Technical File Version A8.1 or higher)	WBC	×10 ⁹ /L	3.57	±0.50	7.94	±1.00	17.93	±2.50
	Neu%	%	52.2	±9.0	61.0	±8.0	64.7	±7.0
	Lym%	%	37.4	±9.0	28.6	±8.0	20.3	±6.0
	Mon%	%	5.6	±4.0	5.1	±5.0	6.8	±6.0
	Eos%	%	4.8	±4.8	5.3	±5.3	8.2	±7.0
	Bas%	%	60.6	±8.0	70.3	±8.0	77.4	±8.0
	Neu#	×10 ⁹ /L	1.86	±0.40	4.85	±0.70	11.60	±1.40
	Lym#	×10 ⁹ /L	1.34	±0.40	2.27	±0.70	3.64	±1.10
	Mon#	×10 ⁹ /L	0.20	±0.14	0.41	±0.41	1.22	±1.10
	Eos#	×10 ⁹ /L	0.17	±0.15	0.42	±0.42	1.47	±1.30
	Bas#	×10 ⁹ /L	2.16	±0.30	5.58	±0.70	13.88	±1.50
	RBC	×10 ¹² /L	2.43	±0.18	4.64	±0.24	5.34	±0.50
	HGB	g/L	59	±4	132	±6	166	±8
	HCT	%	19.5	±2.0	42.2	±3.0	52.3	±4.0
	MCV	fL	80.3	±5.0	91.0	±5.0	97.9	±6.0
	MCH	pg	24.3	±2.5	28.5	±2.5	31.0	±2.5
	MCHC	g/L	304	±30	314	±30	317	±30
	RDW-CV	%	18.0	±3.0	16.3	±3.0	15.4	±3.0
	RDW-SD	fL	52.1	±10.0	52.7	±10.0	53.6	±12.0
	PLT	×10 ⁹ /L	55	±20	257	±40	525	±60
MPV	fL	9.6	±3.0	9.5	±3.0	9.5	±3.0	
PDW	fL	10.1	±3.0	10.1	±3.0	10.1	±3.0	
PCT	%	0.053	±0.050	0.244	±0.100	0.499	±0.200	
P-LCR	%	25.3	±8.0	23.3	±8.0	23.2	±8.0	
P-LCC	×10 ⁹ /L	14	±14	60	±25	122	±35	

【NOTE】

1. The controls should be stored in refrigerator (2°C~8°C). After opening, it will keep stable for 14 days when it is stored airtight at 2°C~8°C.
2. Before mixing and running the control after take it out from the refrigerator, please keep it at least 15 minutes until reaching room temperature(15°C~30°C).
3. Controls must be well mixed before using. Please mix gently, to avoid cells rupture and/or generating bubbles.
4. After using, put the controls back into the refrigerator to prevent contamination and evaporation.



CBC-CAL PLUS

HEMATOLOGY CALIBRATOR

CALIBRATOR

[LOT] PLUS0222

2022-01-05

2022-03-05

Instrument	Parameter	Unit	Reference Value	Deviation
DF50, DF51, DF52 DF53, DF55, DF56 (Technical File Version A11.2 to A11.6)	WBC	$\times 10^9/L$	9.07	± 0.20
	RBC	$\times 10^{12}/L$	4.56	± 0.08
	HGB	g/L	132	± 2
	MCV	fL	89.7	± 2.0
	PLT	$\times 10^9/L$	253	± 12
DF50, DF51, DF52 DF53, DF55, DF56 (Technical File Version A12.0 or higher)	WBC	$\times 10^9/L$	9.15	± 0.20
	RBC	$\times 10^{12}/L$	4.59	± 0.08
	HGB	g/L	133	± 2
	MCV	fL	86.9	± 2.0
	PLT	$\times 10^9/L$	246	± 12
DF50, DF51, DF52 DF53, DF55, DF56 (Technical File Version B1.0 or higher)	WBC	$\times 10^9/L$	9.18	± 0.20
	RBC	$\times 10^{12}/L$	4.58	± 0.08
	HGB	g/L	133	± 2
	MCV	fL	86.9	± 2.0
	PLT	$\times 10^9/L$	255	± 12
DH71, DH76 (Technical File Version A4.1 to A10.3) DH51, DH53, DH56 (Technical File Version A8.1 or higher)	WBC	$\times 10^9/L$	9.29	± 0.20
	RBC	$\times 10^{12}/L$	4.53	± 0.08
	HGB	g/L	132	± 2
	MCV	fL	93.0	± 2.0
	PLT	$\times 10^9/L$	257	± 12

【NOTE】

1. The calibrator should be stored in refrigerator (2°C~8°C). After opening, it will keep stable for 7 days when it is stored airtight at 2°C~8°C.
2. Before mixing and running the calibrator after take it out from the refrigerator, please keep it at least 15 minutes until reaching room temperature (15°C~30°C).
3. Calibrator must be well mixed before using. Please mix gently, to avoid cells rupture and/or generating bubbles.
4. After using, put the calibrator back into the refrigerator to prevent contamination and evaporation.

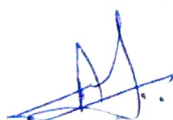
Shenzhen Dymind Biotechnology Co., Ltd

Add: B of 12/F, High-tech park, Guangqiao road, Tianliao Community, Yutangstreet, Guangming District, Shenzhen, Guangdong, P.R.China.

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Traceability

CBC-CAL PLUS Hematology Calibrator

DYMIND CBC-CAL PLUS Hematology Calibrator, manufactured by R&D Systems Inc., is traceable to standard reference methods.

Hematology analyzers in R&D Systems' Quality Assurance Laboratory are whole blood calibrated to values obtained using these standard reference methods. Whole blood samples drawn from normal, healthy donors are collected in EDTA anticoagulant and analyzed within six hours of collection.

WBC: A 1:500 dilution is prepared using a 100 mL Class A volumetric flask filled with isotonic diluent. 1.2 mL of diluent is removed. Sample is added to the flask using a 200 μ L calibrated positive displacement pipette, followed by 1.0 mL lysing agent. Counting is performed on a Coulter Counter Z series instrument. All counts are corrected for coincidence.

RBC: A 1:50,000 dilution is prepared using a 1000 mL Class A volumetric flask filled with isotonic diluent. Sample is added to the flask using a 20 μ L T.C. micropipet. Counting is performed on a Coulter Counter Z series instrument. All counts are corrected for coincidence.

HGB: A 1:251 dilution is prepared using a 50 mL Class A volumetric flask filled with the CLSI recommended reagent for the hemoglobincyanide (cyanmethemoglobin) method (1). Sample is added to the flask using a 200 μ L calibrated positive displacement pipette. The sample is filtered with a 0.2 μ m filter immediately before reading. Readings are made at 540 nm in a colorimeter/spectrophotometer calibrated according to CLSI H15-A3 and ICSH recommendations (1).

HCT: Plain glass microhematocrit tubes (not coated with anticoagulant) are filled with sample, sealed with sealing putty and centrifuged for 5 minutes in a microhematocrit centrifuge according to the CLSI H07-A3 document (2). After centrifugation, the length of the whole column including the plasma, and the length of the red blood cell column, are viewed and measured using a microscope with graduated stage and an ocular micrometer. The hematocrit (packed cell volume) is calculated as the ratio of the two measurements. No correction is made for trapped plasma.

MCV: On some instruments MCV is the calibrated parameter instead of the HCT. The MCV is calculated from the HCT and RBC using the formula: $MCV = HCT \times 10/RBC$

PLT: A 1:126 dilution is prepared using a 50 mL Class A volumetric flask filled with filtered 1% ammonium oxalate. Sample is added to the flask using a 400 μ L calibrated positive displacement pipette. The dilution is plated onto a clean, dry Neubauer ruled phase type hemocytometer. The hemocytometer is left for 10 minutes in a humidified chamber. Using phase contrast optics, the platelets in the entire central square millimeter on both sides of the hemocytometer are counted. The two counts are averaged and multiplied by 1260 (dilution factor 126 \times volume factor 10 = 1260).

BIBLIOGRAPHY

1. Clinical Laboratory Standards Institute. Reference and Selected Procedures for the Quantitative Determination of Hemoglobin in Blood: Approved Standard-Third Edition. CLSI document H15-A3.
2. Clinical Laboratory Standards Institute. Procedure for Determining Packed Cell Volume by the Microhematocrit Method: Approved Standard-Third Edition. CLSI document H07-A3.

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Before Calibration Calibrator of a

Hematology Analysis Report

Sample.

Name:
 Last Name:
 Gender:
 Age:

Sample Type:
 Department:
 Med Rec. No.:

Sample ID: CALIBRATOR1
 Run Time: 2022/01/10 14:19
 Diagnosis:

Parameter	Result		Ref. Range	Unit	
1 WBC	9.49		3.50-9.50	10 ³ /uL	
2 Neu%	91.9	↑	40.0-75.0	%	
3 Lym%	0.5	↓	20.0-50.0	%	
4 Mon%	1.5	↓	3.0-10.0	%	
5 Eos%	2.0		0.4-8.0	%	
6 Bas%	4.1	↑	0.0-1.0	%	
7 Neu#	8.72	↑	1.80-6.30	10 ³ /uL	
8 Lym#	0.05	↓	1.10-3.20	10 ³ /uL	
9 Mon#	0.14		0.10-0.60	10 ³ /uL	
10 Eos#	0.19		0.02-0.52	10 ³ /uL	
11 Bas#	0.39	↑	0.00-0.06	10 ³ /uL	
12 *ALY#	0.00		0.00-0.20	10 ³ /uL	
13 *ALY%	0.0		0.0-2.0	%	
14 *LIC#	0.03		0.00-0.20	10 ³ /uL	
15 *LIC%	0.3		0.0-2.5	%	
16 RBC	4.54		3.80-5.80	10 ⁶ /uL	
17 HGB	13.1		11.5-17.5	g/dL	
18 HCT	42.1		35.0-50.0	%	
19 MCV	92.7		82.0-100.0	fL	
20 MCH	28.8		27.0-34.0	pg	
21 MCHC	31.1	↓	31.6-35.4	g/dL	
22 RDW-CV	15.6		11.0-16.0	%	
23 RDW-SD	51.0		35.0-56.0	fL	
24 PLT	250		125-350	10 ³ /uL	
25 MPV	9.9		6.5-12.0	fL	
26 PDW	12.3		9.0-17.0	fL	
27 PCT	0.247		0.108-0.282	%	
28 P-LCR	26.3		11.0-45.0	%	
29 P-LCC	66		30-90	10 ⁹ /L	

"" means "Research use only, not for diagnostic use".

Submitter: Operator: service Approver:
 Sampling Time: 2022/01/10 14:19 Delivery Time: 2022/01/10 14:19 Validated Time:
 Report Time: 2022/01/10 14:20 Remarks:

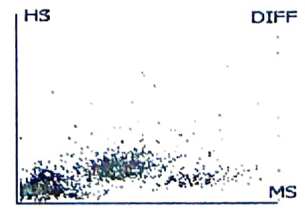
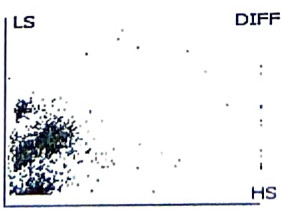
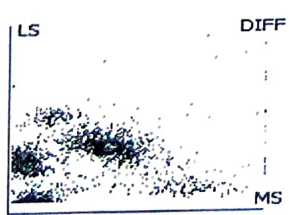
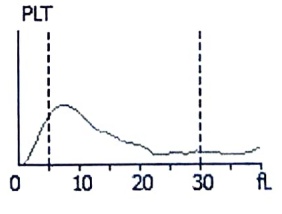
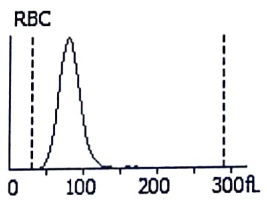
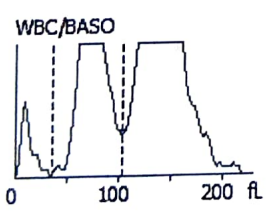
*The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.

Before Calibration OK

L-J QC Analysis

File No.: 7 Lot No.: DH2201 Level: Low
Operator: admin Exp. Date: 2022/03/05 Run Time: 2022/01/10 14:24
Print Time: 2022/01/10 14:28 QC Mode: Whole Blood-CBC+DIFF QC Sample ID: L1

Parameter	Result	Ref. Range	Unit
1 WBC	3.10	3.07-4.07	10 ³ /uL
2 Neu%	54.9	43.2-61.2	%
3 Lym%	32.2	28.4-46.4	%
4 Mon%	5.8	1.6-9.6	%
5 Eos%	7.1	0.0-9.6	%
6 Bas%	63.8	52.6-68.6	%
7 Neu#	1.70	1.46-2.26	10 ³ /uL
8 Lym#	1.00	0.94-1.74	10 ³ /uL
9 Mon#	0.18	0.06-0.34	10 ³ /uL
10 Eos#	0.22	0.02-0.32	10 ³ /uL
11 Bas#	1.98	1.86-2.46	10 ³ /uL
12 RBC	2.51	2.25-2.61	10 ⁶ /uL
13 HGB	6.1	5.5-6.3	g/dL
14 HCT	21.5	17.5-21.5	%
15 MCV	83.1	75.3-85.3	fL
16 MCH	24.7	21.8-26.8	pg
17 MCHC	29.8	27.4-33.4	g/dL
18 RDW-CV	17.6	15.0-21.0	%
19 RDW-SD	51.6	42.1-62.1	fL
20 PLT	47	35-75	10 ³ /uL
21 MPV	10.1	6.6-12.6	fL
22 PDW	9.7	7.1-13.1	fL
23 PCT	0.047	0.003-0.103	%
24 P-LCR	25.4	17.3-33.3	%
25 P-LCC	12	0-28	10 ⁹ /L

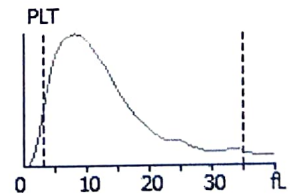
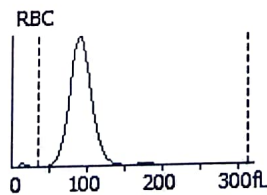
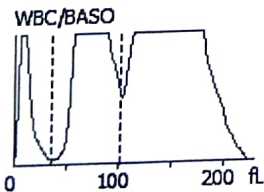


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L-J QC Analysis

File No.: 8	Lot No.: DH2201	Level: Normal
Operator: admin	Exp. Date: 2022/03/05	Run Time: 2022/01/10 14:29
Print Time: 2022/01/10 14:35	QC Mode: Whole Blood-CBC+DIFF	QC Sample ID: N1

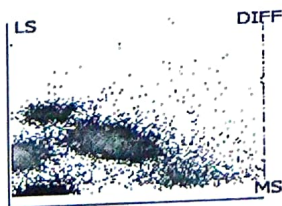
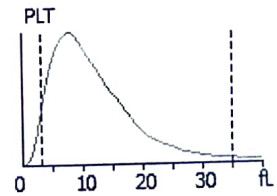
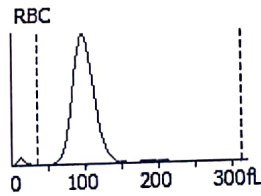
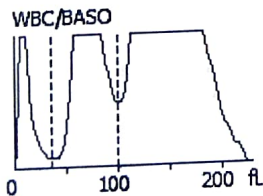
Parameter	Result	Ref. Range	Unit
1 WBC	7.45	6.94-8.94	10³/uL
2 Neu%	60.0	53.0-69.0	%
3 Lym%	29.6	20.6-36.6	%
4 Mon%	7.5	0.1-10.1	%
5 Eos%	6.0	0.0-10.6	%
6 Bas%	70.0	62.3-78.3	%
7 Neu#	5.00	4.15-5.55	10 ³ /uL
8 Lym#	2.40	1.57-2.97	10 ³ /uL
9 Mon#	0.70	0.00-0.82	10 ³ /uL
10 Eos#	0.02	0.00-0.84	10 ³ /uL
11 Bas#	5.16	4.88-6.28	10 ³ /uL
12 RBC	4.57	4.40-4.88	10⁶/uL
13 HGB	13.0	12.6-13.8	g/dL
14 HCT	42.9	39.2-45.2	%
15 MCV	93.7	86.0-96.0	fL
16 MCH	28.5	26.0-31.0	pg
17 MCHC	30.4	28.4-34.4	g/dL
18 RDW-CV	15.6	13.3-19.3	%
19 RDW-SD	51.5	42.7-62.7	fL
20 PLT	279	217-297	10³/uL
21 MPV	10.0	6.5-12.5	fL
22 PDW	11.8	7.1-13.1	fL
23 PCT	0.279	0.144-0.344	%
24 P-LCR	26.0	15.3-31.3	%
25 P-LCC	73	35-85	10 ⁹ /L



L-J QC Analysis

File No.: 9 Lot No.: DH2201 Level: High
 Operator: admin Exp. Date: 2022/03/05 Run Time: 2022/01/10 14:36
 Print Time: 2022/01/10 14:39 QC Mode: Whole Blood-CBC+DIFF QC Sample ID: H1

Parameter	Result	Ref. Range	Unit
1 WBC	16.42	15.43-20.43	10³/uL
2 Neu%	58.0	57.7-71.7	%
3 Lym%	15.2	14.3-26.3	%
4 Mon%	8.3	0.8-12.8	%
5 Eos%	5.0	1.2-15.2	%
6 Bas%	76.9	69.4-85.4	%
7 Neu#	12.00	10.20-13.00	10 ³ /uL
8 Lym#	2.66	2.54-4.74	10 ³ /uL
9 Mon#	1.36	0.12-2.32	10 ³ /uL
10 Eos#	0.77	0.17-2.77	10 ³ /uL
11 Bas#	12.63	12.38-15.38	10 ³ /uL
12 RBC	5.29	4.84-5.84	10⁶/uL
13 HGB	16.3	15.8-17.4	g/dL
14 HCT	53.8	48.3-56.3	%
15 MCV	101.7	91.9-103.9	fL
16 MCH	30.9	28.5-33.5	pg
17 MCHC	30.4	28.7-34.7	g/dL
18 RDW-CV	14.5	12.4-18.4	%
19 RDW-SD	51.4	41.6-65.6	fL
20 PLT	568	465-585	10³/uL
21 MPV	9.4	6.5-12.5	fL
22 PDW	11.4	7.1-13.1	fL
23 PCT	0.533	0.299-0.699	%
24 P-LCR	22.9	15.2-31.2	%
25 P-LCC	130	87-157	10 ⁹ /L



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Calibration Coefficient

Print Time: 2022/01/10 15:03:21

Whole Blood Mode

Para.	Cal. Coefficient (%)	Cal. Date
WBC	100.00	2021/01/12
RBC	100.00	2021/01/12
HGB	100.00	2021/01/12
MCV	100.00	2021/01/12
PLT	100.00	2021/01/12

Predilute Mode

Para.	Cal. Coefficient (%)	Cal. Date
WBC	100.00	2018/03/04
RBC	100.00	2018/03/04
HGB	100.00	2018/03/04
MCV	100.00	2018/03/04
PLT	100.00	2018/03/04

WB-CBC+DIFF

Para.	Factory Cal. Coefficient (%)	Cal. Date
WBC	97.53	2021/01/12
RBC	96.01	2021/09/07
HGB	95.24	2021/09/07
MCV	99.54	2021/01/12
PLT	96.00	2021/01/12
MPV	99.71	2018/05/15

PD-CBC+DIFF

Para.	Factory Cal. Coefficient (%)	Cal. Date
WBC	103.99	2018/03/04
RBC	107.63	2018/03/04
HGB	110.58	2018/03/04
MCV	100.24	2018/03/04
PLT	83.13	2018/03/04
MPV	100.00	

WB-Transfer Coefficient

Para.	Analysis Mode	Sample Mode	Sampling Mode
WBC	1.0629	1.0000	1.0000
RBC	1.0704	1.0000	1.0000
HGB	1.0736	1.0000	1.0000
MCV	0.9952	1.0000	1.0000
PLT	1.1438	1.0000	1.0000
MPV	0.9952	1.0000	1.0000

PD-Transfer Coefficient

Para.	Transfer Coefficient	Cal. Date
WBC	1.0071	2018/03/04
RBC	0.9915	2018/03/04
HGB	0.9882	2018/03/04
MCV	1.0025	2018/03/04
PLT	0.9735	2018/03/04
MPV	1.0000	

Calibrator

Lot No.: PLUS0222
 Calibration Mode: Whole Blood

Exp. Date: 2022/03/05
 Print Time: 2022/01/10 15:03:09

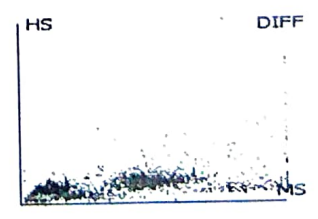
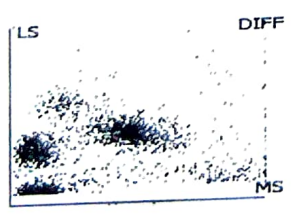
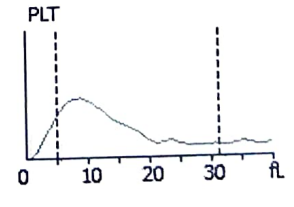
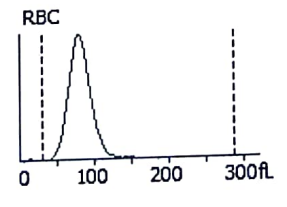
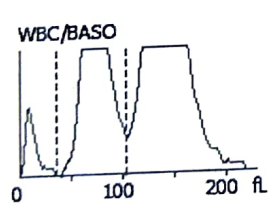
Para.	WBC	RBC	HGB	MCV	PLT	MPV
Target	9.29	4.53	13.2	93.0	257	
1	8.24	4.48	12.9	95.8	248	
2	8.37	4.43	12.9	95.5	245	
3	8.33	4.41	13.0	95.7	257	
4	8.41	4.38	12.9	95.9	242	
5	8.24	4.41	13.2	95.6	248	
6	8.31	4.39	13.0	95.7	236	
7	8.68	4.69	13.9	94.9	279	
8	8.66	4.69	13.9	95.0	276	
9	8.73	4.70	14.0	95.3	279	
10	8.78	4.66	13.9	95.3	294	
11	8.79	4.68	13.9	94.9	278	
12	8.60	4.66	14.0	95.0	271	
CBC-Mean	8.317	4.417	12.98	95.70	246.0	
DIFF-Mean	8.707	4.680	13.93	95.07	279.5	
CBC-CV(%)	0.8	0.8	0.9	0.1	2.9	
DIFF-CV(%)	0.8	0.4	0.4	0.2	2.8	
CBC Cal. Coefficient(%)	111.70	102.56	101.69	97.18	104.47	
DIFF Cal. Coefficient (%)	106.70	96.79	94.76	97.82	91.95	
Transfer Coefficient	1.0469	1.0596	1.0731	0.9935	1.1362	

After Calibration OK

L-J QC Analysis

File No.: 7 Lot No.: DH2201 Level: Low
Operator: service Exp. Date: 2022/03/05 Run Time: 2022/01/10 15:11
Print Time: 2022/01/10 15:13 QC Mode: Whole Blood-CBC+DIFF QC Sample ID: L1

Parameter	Result	Ref. Range	Unit
1 WBC	3.52	3.07-4.07	10 ³ /uL
2 Neu%	49.2	43.2-61.2	%
3 Lym%	39.1	28.4-46.4	%
4 Mon%	5.9	1.6-9.6	%
5 Eos%	5.8	0.0-9.6	%
6 Bas%	59.1	52.6-68.6	%
7 Neu#	1.73	1.46-2.26	10 ³ /uL
8 Lym#	1.38	0.94-1.74	10 ³ /uL
9 Mon#	0.21	0.06-0.34	10 ³ /uL
10 Eos#	0.20	0.02-0.32	10 ³ /uL
11 Bas#	2.08	1.86-2.46	10 ³ /uL
12 RBC	2.40	2.25-2.61	10 ⁶ /uL
13 HGB	5.8	5.5-6.3	g/dL
14 HCT	19.4	17.5-21.5	%
15 MCV	80.9	75.3-85.3	fL
16 MCH	24.3	21.8-26.8	pg
17 MCHC	30.0	27.4-33.4	g/dL
18 RDW-CV	17.7	15.0-21.0	%
19 RDW-SD	50.9	42.1-62.1	fL
20 PLT	51	35-75	10 ³ /uL
21 MPV	10.6	6.6-12.6	fL
22 PDW	11.1	7.1-13.1	fL
23 PCT	0.054	0.003-0.103	%
24 P-LCR	28.2	17.3-33.3	%
25 P-LCC	14	0-28	10 ⁹ /L

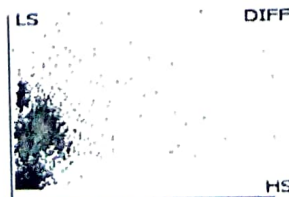
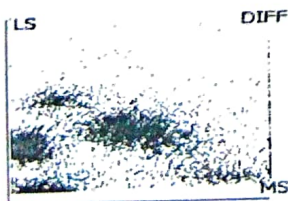
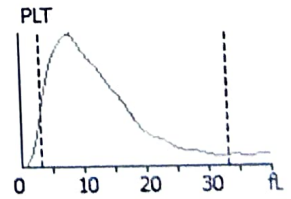
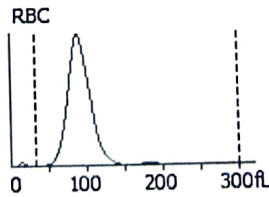
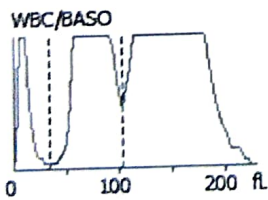


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L-J QC Analysis

File No.: 8	Lot No.: DH2201	Level: Normal
Operator: service	Exp. Date: 2022/03/05	Run Time: 2022/01/10 15:08
Print Time: 2022/01/10 15:13	QC Mode: Whole Blood-CBC+DIFF	QC Sample ID: N1

Parameter	Result	Ref. Range	Unit
1 WBC	8.05	6.94-8.94	10 ³ /uL
2 Neu%	58.3	53.0-69.0	%
3 Lym%	27.2	20.6-36.6	%
4 Mon%	6.3	0.1-10.1	%
5 Eos%	8.2	0.0-10.6	%
6 Bas%	68.7	62.3-78.3	%
7 Neu#	4.69	4.15-5.55	10 ³ /uL
8 Lym#	2.19	1.57-2.97	10 ³ /uL
9 Mon#	0.51	0.00-0.82	10 ³ /uL
10 Eos#	0.66	0.00-0.84	10 ³ /uL
11 Bas#	5.53	4.88-6.28	10 ³ /uL
12 RBC	4.68	4.40-4.88	10 ⁶ /uL
13 HGB	13.1	12.6-13.8	g/dL
14 HCT	42.8	39.2-45.2	%
15 MCV	91.5	86.0-96.0	fL
16 MCH	28.1	26.0-31.0	pg
17 MCHC	30.7	28.4-34.4	g/dL
18 RDW-CV	15.9	13.3-19.3	%
19 RDW-SD	51.1	42.7-62.7	fL
20 PLT	270	217-297	10 ³ /uL
21 MPV	9.6	6.5-12.5	fL
22 PDW	11.9	7.1-13.1	fL
23 PCT	0.259	0.144-0.344	%
24 P-LCR	24.6	15.3-31.3	%
25 P-LCC	66	35-85	10 ⁹ /L



A.J.

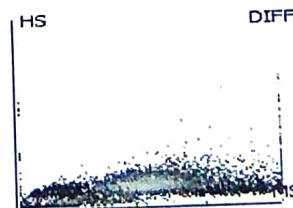
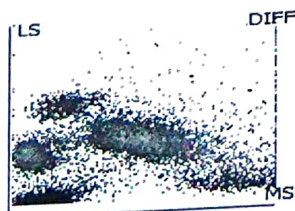
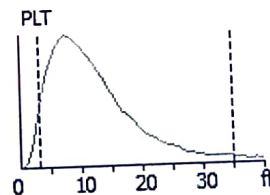
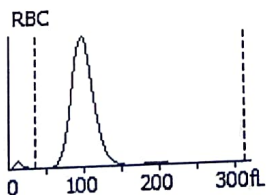
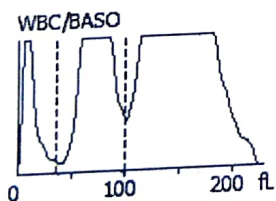
L-J QC Analysis

No.: 9
 Operator: service
 Print Time: 2022/01/10 15:13

Lot No.: DH2201
 Exp. Date: 2022/03/05
 QC Mode: Whole Blood-CBC+DIFF

Level: High
 Run Time: 2022/01/10 15:10
 QC Sample ID: H1

Parameter	Result	Ref. Range	Unit
1 WBC	17.72	15.43-20.43	10 ³ /uL
2 Neu%	65.0	57.7-71.7	%
3 Lym%	20.3	14.3-26.3	%
4 Mon%	5.9	0.8-12.8	%
5 Eos%	8.8	1.2-15.2	%
6 Bas%	76.4	69.4-85.4	%
7 Neu#	11.51	10.20-13.00	10 ³ /uL
8 Lym#	3.60	2.54-4.74	10 ³ /uL
9 Mon#	1.05	0.12-2.32	10 ³ /uL
10 Eos#	1.56	0.17-2.77	10 ³ /uL
11 Bas#	13.55	12.38-15.38	10 ³ /uL
12 RBC	5.29	4.84-5.84	10 ⁶ /uL
13 HGB	16.5	15.8-17.4	g/dL
14 HCT	52.8	48.3-56.3	%
15 MCV	99.8	91.9-103.9	fL
16 MCH	31.3	28.5-33.5	pg
17 MCHC	31.4	28.7-34.7	g/dL
18 RDW-CV	14.6	12.4-18.4	%
19 RDW-SD	50.9	41.6-65.6	fL
20 PLT	543	465-585	10 ³ /uL
21 MPV	9.5	6.5-12.5	fL
22 PDW	11.3	7.1-13.1	fL
23 PCT	0.517	0.299-0.699	%
24 P-LCR	23.6	15.2-31.2	%
25 P-LCC	128	87-157	10 ⁹ /L



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Hematology Analysis Report

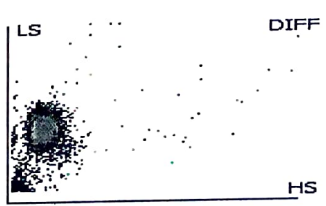
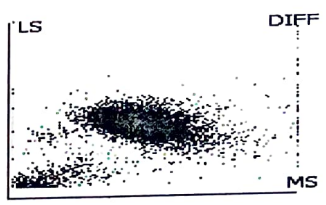
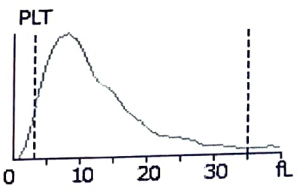
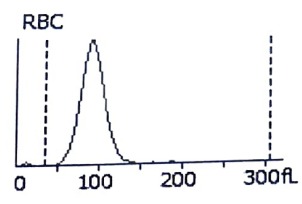
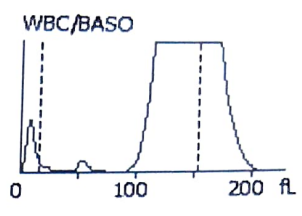
Filter Calibration
 Calibration of a
 Sample of a

Sample Type:
 Department:
 Med Rec. No.:

Sample ID: CALIBRATOR2
 Run Time: 2022/01/10 15:18
 Diagnosis:

Name:
 Patient Name:
 Gender:
 Age:

Parameter	Result		Ref. Range	Unit
1 WBC	9.43		3.50-9.50	10 ³ /uL
2 Neu%	88.5	↑	40.0-75.0	%
3 Lym%	0.6	↓	20.0-50.0	%
4 Mon%	1.4	↓	3.0-10.0	%
5 Eos%	2.4		0.4-8.0	%
6 Bas%	7.1	↑	0.0-1.0	%
7 Neu#	8.34	↑	1.80-6.30	10 ³ /uL
8 Lym#	0.06	↓	1.10-3.20	10 ³ /uL
9 Mon#	0.13		0.10-0.60	10 ³ /uL
10 Eos#	0.23		0.02-0.52	10 ³ /uL
11 Bas#	0.67	↑	0.00-0.06	10 ³ /uL
12 *ALY#	0.00		0.00-0.20	10 ³ /uL
13 *ALY%	0.0		0.0-2.0	%
14 *LIC#	0.02		0.00-0.20	10 ³ /uL
15 *LIC%	0.2		0.0-2.5	%
16 RBC	4.56		3.80-5.80	10 ⁶ /uL
17 HGB	13.2		11.5-17.5	g/dL
18 HCT	42.2		35.0-50.0	%
19 MCV	92.6		82.0-100.0	fL
20 MCH	29.0		27.0-34.0	pg
21 MCHC	31.3	↓	31.6-35.4	g/dL
22 RDW-CV	15.8		11.0-16.0	%
23 RDW-SD	51.6		35.0-56.0	fL
24 PLT	255		125-350	10 ³ /uL
25 MPV	9.5		6.5-12.0	fL
26 PDW	10.8		9.0-17.0	fL
27 PCT	0.241		0.108-0.282	%
28 P-LCR	23.3		11.0-45.0	%
29 P-LCC	59		30-90	10 ⁹ /L



**** means "Research use only, not for diagnostic use".

Submitter: Operator: service Approver:
 Sampling Time: 2022/01/10 15:18 Delivery Time: 2022/01/10 15:18 Validated Time:
 Report Time: 2022/01/10 15:22 Remarks:

*The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.

LIKHITHA'S

Diagnostics - Speciality Lab

Dymind DH 76

(5 Part Diff Hematology Analyser)

S.N. DM11051809001

Installation
Qualification (IQ)



IQ, OQ & PQ PROTOCOL

FOR

DYMIND DH76

5-Part Haematology Analyzer

MARKETED BY:

Acu Medica Lab Systems (Pvt) Ltd.

B – 518/519, Nand Dham,

Plot Num 59, Sector 11, CBD Belapur

Navi Mumbai – 400614, India.

CONTENTS:

- I. GENERAL INSTRUCTIONS.
- II. A. INSTALLATION QUALIFICATION.
B. INSTALLATION PROCEDURE.
- III. A. OPERATIONAL QUALIFICATION.
B. OPERATOR MAINTENANCE PROTOCOL
- IV. PERFORMANCE QUALIFICATIONS.

GENERAL INSTRUCTIONS:

Acu Medica Lab Systems Pvt.Ltd.is responsible for installation of DYMIND DH76, Fully Automated Hematology Analyzer, at Shanku's Medicity Hospital, Mehsana, as per the attached protocol.

An authorized Acu Medica Lab Systems 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.

An authorized Acu Medica Lab Systems 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 Precision checks will be verified by the qualified trained employee of Shanku's Medicity Hospital, Mehsana, along with an authorized Acu Medica Lab Systems 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 Acu Medica Lab Systems 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:		
Name: U.ANKARAO		
Title: Area service manager	Sign: 	Date: 12/1/2021
Reviewed by:		
Name: Dr. ZEHRATUL QURESH		
Title: Consultant Pathologist	Sign: 	Date: 12/1/2021
Approved by:		
Name: Dr. ZEHRATUL QURESH		
Title: Consultant Pathologist	Sign: 	Date: 12/1/2021

DYMIND DH76

5 - Part Haematology Analyzer

INSTALLATION QUALIFICATION

FOR

LIKITHA DIAGNOSTICS

MARKETED BY:

Acu Medica Lab Systems (Pvt) Ltd.

B - 518/519, Nand Dham,

Plot Num 59, Sector 11, CBD Belapur

Navi Mumbai - 400614, India.

II.A. INSTALLATION QUALIFICATION

1. Installation Requirement :

Sr. No.	Description	Compliance Yes/No	Verified by & Date
1.	Environmental conditions as per required. Ref: (Instrument User Manual Pg 259)	YES	12/1/2021
2.	Physical Space Requirement as per Ref: (Instrument User Manual Pg 7)	YES	12/1/2021
3.	Electrical Requirements Ref: (Instrument User Manual > Pg 8)	YES	12/1/2021
4.	UPS connection available.	YES	12/1/2021

2. The instrument has been checked for the following:

Sr.No.	Verification	Provided Yes/No	Verified by & Date
1.	Instrument is identified Instrument ID (customer)	YES	
2.	Specifications are included: Ref: (Instrument User Manual)	YES	12/1/2021
3.	Accessories/consumables are listed as per checklist	YES	12/1/2021
4.	System checked for any External/ physical damage.	YES	12/1/2021
5.	Instrument User Manual	YES	12/1/2021

3. Equipment Description :

DYMIND DH76,

InstrumentIdentification	Verified Yes/No	Verified by/Date
EquipmentType:HaematologyAnalyzer	YES	12/1/2021
Model:DH76	YES	
Manufacturer:DYMIND	YES	
MarketedBy:Acu Medica Lab SystemsPvt. Ltd.	YES	12/1/2021
Equipment#:One	YES	12/1/2021
SerialNumber:DM11051809001	YES	
Dimensions:<380mm x <450mm x <535mm	YES	
PowerSupply:100Vacto240Vac(+/-10%) 50Hzto60Hz PowerConsumption:<250VA	YES	12/1/2021

4. Accessories/Consumables:

Theaccessoriesweresuppliedwiththeinstrumentasperthechecklist.Check&verified in casetheyarefoundtobeinorder.

Qualifiedtrainedemployeename	VerifiedBy	Date
B.KRISHNA	ANKARAO	12/1/2021
BABU	ANKARAO	12/1/2021

5. Preventive Maintenance :

The routine preventive maintenance of the system will be carried out by an authorized Acu Medica Lab Systems Pvt. Ltd., engineer at a specified time interval (EVERY 6 MONTH) as recommended by the manufacturer.

6. Spare Parts:

Acu Medica Lab Systems Pvt. Ltd strongly recommends the end user to maintain a basic consumable parts on site to minimize downtime due to minor failures. We will provide the list of such consumable parts to the user on request.

II.B. INSTALLATION PROCEDURE :

1. Putting the system at the predefined and preinspected location
2. Removal of the internal packing material of the system.
3. Place the Instrument on the bench top.
4. Connect the Power cord to the DYMIND DH76.
6. Connect the reagent tubing and reagent to the Instrument.
7. Remove the clip connected to the sampling belt and block.
8. Power on computer (PC) and switch on the Instrument.
9. All the operating software has been loaded into DYMIND DH76.
10. Now from back of the instrument turn the power switch ON. DYMIND DH76 goes through its power up and self-test sequence.
11. The DYMIND DH76 **Main Menu** is displayed after the startup sequence is completed.

Report Sign Off :

Prepared by:		
Name:	U. ANKARAO	
Title:	Sign:	Date:
Area service manager		12/1/2021
Reviewed by:		
Name:	Dr. ZEHRATUL QURESH	
Title:	Sign:	Date:
Consultant Pathologist		12/01/2021
Approved by:		
Name:	Dr. ZEHRATUL QURESH	
Title:	Sign:	Date:
		12/01/2021

Conclusion: Instrument has been qualified for Installation. Hence it has been taken for installation qualification.

INSTALLATION REPORT

EQUIPMENT: Hematology	MANUFACTURER: Dymind	MODEL: DH76
SERIAL NO: DM11051809004	SOFTWARE VERSION: A9.1	INSTALLATION DATE: 12/1/2021
RUNNING HOURS: 24 hours	DEPT: PATHOLOGY	WARRANTY EXPIRY ON: RR ✓
CUSTOMER: Likhithe diagnostics Kphb Hyderabad.	CONTACT:	PHONE NO.
		FAX NO.
		E-MAIL:

ACCESSORIES:

NO.	CAT. NO.	SERIAL NO.	DESCRIPTION	QUANTITY
1.		DM11051809004	New instrument	1
2.			diluent tube & sensor	1
3.			lyse tube & sensor	1
4.			waste floating sensor	1
5.			power cable	1

ENGINEER'S REMARKS:

CUSTOMER'S REMARKS:

SIGNATURE: 	SIGNATURE: 
ENGINEER NAME: U. Ankaraw	CUSTOMER NAME: Dr. Zehra Qureshi
DESIGNATION: Area service manager.	DESIGNATION: Chief Lab

SERVICE REPORT

SR. No. :

CUSTOMER DETAILS	INSTRUMENT DETAILS		SERVICE STATUS
NAME : <i>Likhitha diagnostics</i>	MODEL : <i>dh76</i>	WARRANTY CMC AMC PREVENTIVE MAINTENANCE <i>kk</i>	
ADDRESS : <i>1cphb. Hyderabad.</i>	EQUIP. SL. NO. : <i>DM11051809004</i>		
TEL. NO. :	VERSION : <i>A9.1</i>	CALL DETAILS	DATE TIME
CONTACT PERSON :	COMPLAINT RECD		
	START		
	COMPLETED		
	TRAVEL TIME		
	DAILY WORKLOAD		
		WORK CARRIED OUT AT <input checked="" type="checkbox"/> SITE <input type="checkbox"/> WHERE HOUSE	

PROBLEM REPORTED : *New dh76 instrument installation.*

OBSERVATION :

ACTION TAKEN : *to install the instrument successfully. check the earthing is ok, give the facility to the lab technician, run the samples and QC values are good.*

- FOLLOWING PARTS HAVE BEEN REPLACED
 FOLLOWING PARTS NEED TO BE REPLACED PLEASE APPROVE

PART NO.	DESCRIPTION	COST	QTY.	TOTAL	TO BE FILLED BY CUSTOMER
					<input type="checkbox"/> COMMENTS (IF ANY) <i>[Signature]</i>
	TOTAL RS				SEAL

FOLLOW-UP ACTION. *please give proper cleaning for the Analyser.*

ENGINEER NAME : *Anilkaraw.*

DATE & TIME

SIGNATURE : *[Signature]*

12/1/2021.



CUSTOMER SIGNATURE

CUSTOMER NAME

LIKHITHA'S

Diagnostics - Speciality Lab

Dymind DH 76

(5 Part Diff Hematology Analyser)

S.N. DM11051809001

**Operational
Qualification (OQ)**

DYMIND DH76

5 - Part Haematology Analyzer

OPERATIONAL QUALIFICATION

FOR

LIKITHA DIAGNOSTICS

MARKETED BY:

Acu Medica Lab Systems (Pvt) Ltd.

B - 518/519, Nand Dham,

Plot Num 59, Sector 11, CBD Belapur

Navi Mumbai - 400614, India.

III.A. OPERATIONAL QUALIFICATION

1. Instrument Identification :

InstrumentName:DYMIND DH76

SerialNumber:DM11051809001

2. Following is the list of actions performed and verified for running the system routinely.

Test No.	Test Name	Test Purpose	Method	Verified Date
1.	SYSTEM SWITCH ON	TO CHECK THE ERROR FREE POWER UP.	Switch on the main, switch on the system. System will perform the self-test sequence. DYMIND DH56 MAIN MENU is displayed after the completion. Check for any errors on the screen.	12/1/2021
2.	STARTUP CYCLE	TO CHECK THE BACKGROUND IS OK.	Run a start-up cycle check if the background is in the acceptable range.	12/1/2021
3.	PRINTER TEST	TO CHECK STATUS OF THE PRINTER.	Initiate a self-test of printer or run a sample to check the print.	12/1/2021
4.	REAGENT STATUS	TO CHECK ADEQUATE REAGENT IS AVAILABLE FOR ANALYSIS	Manually check in the reagent bottles.	12/1/2021

3.Operator 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.	B.KRISHNA	Sr.Lab Technician	u.ankarao	12/1/2021
2.	BABU	Lab Technician		12/1/2021
3.	MD. ARSHAD	Lab Technician		12/1/2021
4.	SANTHOSH	Lab Technician		12/1/2021
5.				
6.				
7.				
8.				

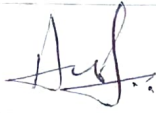

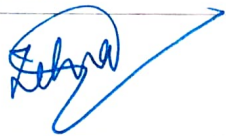
4.Comments:

Training has been given to all the responsible laboratory staff of SHANKU'S MEDICITY HOSPITAL, MEHSANA, to handle the software, operation and maintenance of this system. On successful completion of this training program, Acu Medica Lab Systems Pvt.Ltd will issue Training certificates for the laboratory staff of SHANKU'S MEDICITY HOSPITAL, MEHSANA who underwent this training program.

III. B. OPERATOR MAINTENANCE PROTOCOL

Ref.Chapter13 of InstrumentUser Manual> Maintenance

ReportSignOff

Preparedby:			
Name:	U.ANKARAO		
Title: Area service manager	Sign:		Date: 12/1/2021
Reviewedby:			
Name:	Dr.ZEHRATUL QURESH		
Title: Consultant Pathologist	Sign:		Date:12/1/2021
Approvedby:			
Name:	Dr.ZEHRATUL QURESH		
Title:	Sign:		Date:12/1/2021

Conclusion:

InstrumenthasbeenqualifiedforOperation.Henceithasbeentakenfor OperationalQualification.

DYMIND DH76

5 – Part Haematology Analyzer

PERFORMANCE QUALIFICATION

FOR

LIKITHA DIAGNOSTICS

MARKETED BY:

Acu Medica Lab Systems (Pvt) Ltd.

B – 518/519, Nand Dham,

Plot Num 59, Sector 11, CBD Belapur

Navi Mumbai – 400614, India.

IV. PERFORMANCE QUALIFICATION

A. Instrument Identification :

InstrumentName: DYMIND DH76

SerialNumber: DM11051809001

B. Following is the list of test performed and verified

Repeatability, tests for Precision. Checked and found to be acceptable.

Blank Reference cycle: Tested and found to be acceptable.

Report Sign Off

Prepared by:			
Name:	U. ANKARAO		
Title: Sr. Customer Service Engineer	Sign: 	Date: 12/01/2021	
Reviewed by:			
Name:	Dr. ZEHRATUL QURESHI		
Title: Consultant Pathologist	Sign: 	Date: 12/01/2021	
Approved by:			
Name:	Dr. ZEHRATUL QURESHI		
Title:	Sign: 	Date: 12/01/2021	

Conclusion:

Instrument has been qualified for Performance. Hence it has been taken for Performance Qualification.

LIKHITHA'S

Diagnostics - Speciality Lab

Dymind DH 76

(5 Part Diff Hematology Analyser)

S.N. DM11051809001

**Performance
Qualification (PQ)**

LIKHTHA'S

Diagnostics - Speciality Lab

Dymind DH 76

(5 Part Diff Hematology Analyser)

S.N. DM11051809001

Precision Study

DH 76 Precision Check dated: 20/01/2021

Sr. no.	ID	Parameters																RBC	HGB	HCT	MCV	MCH	MCHC	RDW-CV	RDW-SD	PLT	MPV	PDW	PCT	P-LCR	P-LCC
		WBC	NEU%	LYM%	MON%	EOS%	BAS%	NEU#	LYM#	MON#	EOS#	BAS#	ALY#	ALY%	LIC#	LIC%															
1	4001.1	8.50	52.50	39.50	6.20	1.60	0.20	4.45	3.36	0.53	0.14	0.02	0.05	0.60	0.00	0.00	4.29	12.70	36.90	85.90	29.50	34.40	13.00	39.80	270.00	10.60	12.60	0.285	30.10	81.00	
2	4001.2	8.55	51.40	40.10	6.80	1.60	0.10	4.39	3.43	0.58	0.14	0.01	0.10	1.10	0.00	0.00	4.29	12.7	36.80	86.00	29.60	34.50	13.20	40.30	270.00	10.60	11.60	0.287	29.60	80.00	
3	4001.3	8.55	51.5	40.4	6.40	1.50	0.20	4.40	3.45	0.55	0.13	0.02	0.05	0.50	0.00	0.00	4.32	12.7	37.10	85.80	29.40	34.30	13.10	40.10	275.00	10.80	13.10	0.298	32.20	89.00	
4	4001.4	8.56	51.30	40.50	6.50	1.50	0.20	4.38	3.47	0.56	0.13	0.02	0.09	1.10	0.00	0.00	4.29	12.8	36.80	85.70	29.80	34.70	13.20	40.30	270.00	10.70	12.80	0.289	31.40	85.00	
5	4001.5	8.64	52.00	39.50	6.50	1.80	0.20	4.49	3.41	0.56	0.16	0.02	0.05	0.60	0.00	0.00	4.32	12.9	37.00	85.70	29.70	34.70	13.00	39.70	269.00	10.60	12.10	0.284	29.80	80.00	
6	4001.6	8.77	53.20	38.80	6.90	1.70	0.20	4.66	3.33	0.61	0.15	0.02	0.08	0.90	0.00	0.00	4.40	12.9	37.90	86.00	29.40	34.20	13.00	39.80	259.00	10.60	12.60	0.257	30.50	79.00	
7	4001.7	8.71	51.30	40.30	6.50	1.70	0.20	4.46	3.51	0.57	0.15	0.02	0.09	1.00	0.00	0.00	4.36	12.8	37.60	86.10	29.40	34.20	13.20	40.40	262.00	10.50	11.60	0.275	29.20	77.00	
8	4001.8	8.31	51.10	39.70	6.80	2.10	0.30	4.25	3.30	0.57	0.17	0.02	0.09	1.10	0.00	0.00	4.35	12.9	37.30	85.80	29.70	34.60	13.10	40.20	255.00	10.60	12.70	0.269	30.60	78.00	
9	4001.9	8.49	51.40	39.30	7.20	1.80	0.30	4.36	3.34	0.61	0.15	0.03	0.06	0.70	0.00	0.00	4.41	13.1	37.80	85.70	29.70	34.60	13.20	40.30	267.00	10.70	12.30	0.286	31.60	85.00	
10	4001.10	8.52	49.30	41.50	6.60	2.20	0.40	4.20	3.54	0.56	0.19	0.03	0.09	1.10	0.00	0.00	4.34	13.0	37.30	85.90	29.80	34.70	13.00	39.80	273.00	10.80	12.70	0.294	31.20	85.00	

Mean	8.56	51.50	39.96	6.64	1.75	0.23	4.40	3.41	0.57	0.15	0.02	0.08	0.87	0.00	0.00	4.34	12.85	37.25	85.86	29.60	34.49	13.10	40.07	267.00	10.65	12.41	0.28	30.62	81.90
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SD	0.13	1.01	0.76	0.29	0.24	0.08	0.13	0.08	0.02	0.02	0.01	0.02	0.25	0.00	0.00	0.04	0.14	0.40	0.14	0.16	0.20	0.09	0.27	6.36	0.10	0.50	0.01	0.97	3.87
CV	1.49	1.97	1.91	4.33	13.54	35.79	2.89	2.36	4.38	12.27	27.03	26.85	28.18	0.00	0.0	1.01	1.05	1.08	0.17	0.55	0.59	0.72	0.67	2.38	0.91	4.06	4.33	3.16	4.73

REP(CV%)	<2.0%															<1.5%	<1.5%		<1.0%							<4.0%			
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Prepared and Verified by

Prepared and Verified by

satisfactory

[Signature]
22/1/21

[Signature]

Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: PRECISION CHECK 1-0
Run Time: 2021/01/20 15:55
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	8.50	3.50-9.50	10 ³ /uL	16 RBC	4.29	3.80-5.80	10 ⁶ /uL
2 Neu%	52.5	40.0-75.0	%	17 HGB	12.7	11.5-17.5	g/dL
3 Lym%	39.5	20.0-50.0	%	18 HCT	36.9	35.0-50.0	%
4 Mon%	6.2	3.0-10.0	%	19 MCV	85.9	82.0-100.0	fL
5 Eos%	1.6	0.4-8.0	%	20 MCH	29.5	27.0-34.0	pg
6 Bas%	0.2	0.0-1.0	%	21 MCHC	34.4	31.6-35.4	g/dL
7 Neu#	4.45	1.80-6.30	10 ³ /uL	22 RDW-CV	13.0	11.0-16.0	%
8 Lym#	3.36 ↑	1.10-3.20	10 ³ /uL	23 RDW-SD	39.8	35.0-56.0	fL
9 Mon#	0.53	0.10-0.60	10 ³ /uL	24 PLT	270	125-350	10 ³ /uL
10 Eos#	0.14	0.02-0.52	10 ³ /uL	25 MPV	10.6	6.5-12.0	fL
11 Bas#	0.02	0.00-0.06	10 ³ /uL	26 PDW	12.6	9.0-17.0	fL
12 *ALY#	0.05	0.00-0.20	10 ³ /uL	27 PCT	0.285 ↑	0.108-0.282	%
13 *ALY%	0.6	0.0-2.0	%	28 P-LCR	30.1	11.0-45.0	%
14 *LIC#	0.00	0.00-0.20	10 ³ /uL	29 P-LCC	81	30-90	10 ⁹ /L
15 *LIC%	0.0	0.0-2.5	%				

"" means "Research use only, not for diagnostic use".

Sample Type:
Description:

Microscopic exam. Time:

Submitter:

Operator: admin

Approver:

Sampling Time: 2021/01/20 15:55

Delivery Time: 2021/01/20 15:55

Validated Time:

Report Time: 2021/01/21 14:59

Remarks:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: PRECISION CHECK 1-1
Run Time: 2021/01/20 15:58
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	8.55	3.50-9.50	10 ³ /uL	16 RBC	4.29	3.80-5.80	10 ⁶ /uL
2 Neu%	51.4	40.0-75.0	%	17 HGB	12.7	11.5-17.5	g/dL
3 Lym%	40.1	20.0-50.0	%	18 HCT	36.8	35.0-50.0	%
4 Mon%	6.8	3.0-10.0	%	19 MCV	86.0	82.0-100.0	fL
5 Eos%	1.6	0.4-8.0	%	20 MCH	29.6	27.0-34.0	pg
6 Bas%	0.1	0.0-1.0	%	21 MCHC	34.5	31.6-35.4	g/dL
7 Neu#	4.39	1.80-6.30	10 ³ /uL	22 RDW-CV	13.2	11.0-16.0	%
8 Lym#	3.43 ↑	1.10-3.20	10 ³ /uL	23 RDW-SD	40.3	35.0-56.0	fL
9 Mon#	0.58	0.10-0.60	10 ³ /uL	24 PLT	270	125-350	10 ³ /uL
10 Eos#	0.14	0.02-0.52	10 ³ /uL	25 MPV	10.6	6.5-12.0	fL
11 Bas#	0.01	0.00-0.06	10 ³ /uL	26 PDW	11.6	9.0-17.0	fL
12 *ALY#	0.10	0.00-0.20	10 ³ /uL	27 PCT	0.287 ↑	0.108-0.282	%
13 *ALY%	1.1	0.0-2.0	%	28 P-LCR	29.6	11.0-45.0	%
14 *LIC#	0.00	0.00-0.20	10 ³ /uL	29 P-LCC	80	30-90	10 ⁹ /L
15 *LIC%	0.0	0.0-2.5	%				

*** means "Research use only, not for diagnostic use".

Sample Type:
Description:

Microscopic exam. Time:

Submitter:

Operator: admin

Approver:

Sampling Time: 2021/01/20 15:58

Delivery Time: 2021/01/20 15:58

Validated Time:

Report Time: 2021/01/21 14:59

Remarks:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: PRECISION CHECK 1-2
Run Time: 2021/01/20 16:04
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	8.55	3.50-9.50	10 ³ /uL	16 RBC	4.32	3.80-5.80	10 ⁶ /uL
2 Neu%	51.5	40.0-75.0	%	17 HGB	12.7	11.5-17.5	g/dL
3 Lym%	40.4	20.0-50.0	%	18 HCT	37.1	35.0-50.0	%
4 Mon%	6.4	3.0-10.0	%	19 MCV	85.8	82.0-100.0	fL
5 Eos%	1.5	0.4-8.0	%	20 MCH	29.4	27.0-34.0	pg
6 Bas%	0.2	0.0-1.0	%	21 MCHC	34.3	31.6-35.4	g/dL
7 Neu#	4.40	1.80-6.30	10 ³ /uL	22 RDW-CV	13.1	11.0-16.0	%
8 Lym#	3.45 ↑	1.10-3.20	10 ³ /uL	23 RDW-SD	40.1	35.0-56.0	fL
9 Mon#	0.55	0.10-0.60	10 ³ /uL	24 PLT	275	125-350	10 ³ /uL
10 Eos#	0.13	0.02-0.52	10 ³ /uL	25 MPV	10.8	6.5-12.0	fL
11 Bas#	0.02	0.00-0.06	10 ³ /uL	26 PDW	13.1	9.0-17.0	fL
12 *ALY#	0.05	0.00-0.20	10 ³ /uL	27 PCT	0.298 ↑	0.108-0.282	%
13 *ALY%	0.5	0.0-2.0	%	28 P-LCR	32.2	11.0-45.0	%
14 *LIC#	0.00	0.00-0.20	10 ³ /uL	29 P-LCC	89	30-90	10 ⁹ /L
15 *LIC%	0.0	0.0-2.5	%				

**** means "Research use only, not for diagnostic use".

Sample Type:
Description:

Microscopic exam. Time:

Submitter: Operator: admin Approver:
Sampling Time: 2021/01/20 16:04 Delivery Time: 2021/01/20 16:04 Validated Time:
Report Time: 2021/01/21 14:59 Remarks:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Hematology Analysis Report

First Name:
 Last Name:
 Gender:
 Age:

Sample Type:
 Department:
 Med Rec. No.:

Sample ID: PRECISION CHECK 1-3
 Run Time: 2021/01/20 16:06
 Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	8.56	3.50-9.50	10 ³ /uL	16 RBC	4.29	3.80-5.80	10 ⁶ /uL
2 Neu%	51.3	40.0-75.0	%	17 HGB	12.8	11.5-17.5	g/dL
3 Lym%	40.5	20.0-50.0	%	18 HCT	36.8	35.0-50.0	%
4 Mon%	6.5	3.0-10.0	%	19 MCV	85.7	82.0-100.0	fL
5 Eos%	1.5	0.4-8.0	%	20 MCH	29.8	27.0-34.0	pg
6 Bas%	0.2	0.0-1.0	%	21 MCHC	34.7	31.6-35.4	g/dL
7 Neu#	4.38	1.80-6.30	10 ³ /uL	22 RDW-CV	13.2	11.0-16.0	%
8 Lym#	3.47 ↑	1.10-3.20	10 ³ /uL	23 RDW-SD	40.3	35.0-56.0	fL
9 Mon#	0.56	0.10-0.60	10 ³ /uL	24 PLT	270	125-350	10 ³ /uL
10 Eos#	0.13	0.02-0.52	10 ³ /uL	25 MPV	10.7	6.5-12.0	fL
11 Bas#	0.02	0.00-0.06	10 ³ /uL	26 PDW	12.8	9.0-17.0	fL
12 *ALY#	0.09	0.00-0.20	10 ³ /uL	27 PCT	0.289 ↑	0.108-0.282	%
13 *ALY%	1.1	0.0-2.0	%	28 P-LCR	31.4	11.0-45.0	%
14 *LIC#	0.00	0.00-0.20	10 ³ /uL	29 P-LCC	85	30-90	10 ⁹ /L
15 *LIC%	0.0	0.0-2.5	%				

*** means "Research use only, not for diagnostic use".

Sample Type:
 Description:

Microscopic exam. Time:

Submitter: Operator: admin Approver:
 Sampling Time: 2021/01/20 16:06 Delivery Time: 2021/01/20 16:06 Validated Time:
 Report Time: 2021/01/21 14:59 Remarks:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: PRECISION CHECK 1-4
Run Time: 2021/01/20 16:08
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	8.64	3.50-9.50	10 ³ /uL	16 RBC	4.32	3.80-5.80	10 ⁶ /uL
2 Neu%	52.0	40.0-75.0	%	17 HGB	12.9	11.5-17.5	g/dL
3 Lym%	39.5	20.0-50.0	%	18 HCT	37.0	35.0-50.0	%
4 Mon%	6.5	3.0-10.0	%	19 MCV	85.7	82.0-100.0	fL
5 Eos%	1.8	0.4-8.0	%	20 MCH	29.7	27.0-34.0	pg
6 Bas%	0.2	0.0-1.0	%	21 MCHC	34.7	31.6-35.4	g/dL
7 Neu#	4.49	1.80-6.30	10 ³ /uL	22 RDW-CV	13.0	11.0-16.0	%
8 Lym#	3.41 ↑	1.10-3.20	10 ³ /uL	23 RDW-SD	39.7	35.0-56.0	fL
9 Mon#	0.56	0.10-0.60	10 ³ /uL	24 PLT	269	125-350	10 ³ /uL
10 Eos#	0.16	0.02-0.52	10 ³ /uL	25 MPV	10.6	6.5-12.0	fL
11 Bas#	0.02	0.00-0.06	10 ³ /uL	26 PDW	12.1	9.0-17.0	fL
12 *ALY#	0.05	0.00-0.20	10 ³ /uL	27 PCT	0.284 ↑	0.108-0.282	%
13 *ALY%	0.6	0.0-2.0	%	28 P-LCR	29.8	11.0-45.0	%
14 *LIC#	0.00	0.00-0.20	10 ³ /uL	29 P-LCC	80	30-90	10 ⁹ /L
15 *LIC%	0.0	0.0-2.5	%				

"" means "Research use only, not for diagnostic use".

Sample Type:
Description:

Microscopic exam. Time:

Submitter:

Operator: admin

Approver:

Sampling Time: 2021/01/20 16:08

Delivery Time: 2021/01/20 16:08

Validated Time:

Report Time: 2021/01/21 14:59

Remarks:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Hematology Analysis Report

First Name
Last Name
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: PRECISION CHECK 1-5
Run Time: 2021/01/20 16:09
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	8.77	3.50-9.50	10 ³ /uL	16 RBC	4.40	3.80-5.80	10 ⁶ /uL
2 Neu%	53.2	40.0-75.0	%	17 HGB	12.9	11.5-17.5	g/dL
3 Lym%	38.0	20.0-50.0	%	18 HCT	37.9	35.0-50.0	%
4 Mon%	6.9	3.0-10.0	%	19 MCV	86.0	82.0-100.0	fL
5 Eos%	1.7	0.4-8.0	%	20 MCH	29.4	27.0-34.0	pg
6 Bas%	0.2	0.0-1.0	%	21 MCHC	34.2	31.6-35.4	g/dL
7 Neu#	4.66	1.80-6.30	10 ³ /uL	22 RDW-CV	13.0	11.0-16.0	%
8 Lym#	3.33	1.10-3.20	10 ³ /uL	23 RDW-SD	39.8	35.0-56.0	fL
9 Mon#	0.61	0.10-0.60	10 ³ /uL	24 PLT	259	125-350	10 ³ /uL
10 Eos#	0.15	0.02-0.52	10 ³ /uL	25 MPV	10.6	6.5-12.0	fL
11 Bas#	0.02	0.00-0.06	10 ³ /uL	26 PDW	12.6	9.0-17.0	fL
12 *ALY#	0.08	0.00-0.20	10 ³ /uL	27 PCT	0.275	0.108-0.282	%
13 *ALY%	0.9	0.0-2.0	%	28 P-LCR	30.5	11.0-45.0	%
14 *LIC#	0.00	0.00-0.20	10 ³ /uL	29 P-LCC	79	30-90	10 ⁹ /L
15 *LIC%	0.0	0.0-2.5	%				

*** means "Research use only, not for diagnostic use".

Sample Type
Description:

Microscopic exam. Time:

Submitter:
Sampling Time: 2021/01/20 16:09
Report Time: 2021/01/21 14:59

Operator: admin
Delivery Time: 2021/01/20 16:09
Remarks:

Approver:
Validated Time:

*The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.

Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: PRECISION CHECK 1-6
Run Time: 2021/01/20 16:11
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	8.71	3.50-9.50	10 ³ /uL	16 RBC	4.36	3.80-5.80	10 ⁶ /uL
2 Neu%	51.3	40.0-75.0	%	17 HGB	12.8	11.5-17.5	g/dL
3 Lym%	40.3	20.0-50.0	%	18 HCT	37.6	35.0-50.0	%
4 Mon%	6.5	3.0-10.0	%	19 MCV	86.1	82.0-100.0	fL
5 Eos%	1.7	0.4-8.0	%	20 MCH	29.4	27.0-34.0	pg
6 Bas%	0.2	0.0-1.0	%	21 MCHC	34.2	31.6-35.4	g/dL
7 Neu#	4.46	1.80-6.30	10 ³ /uL	22 RDW-CV	13.2	11.0-16.0	%
8 Lym#	3.51	1.10-3.20	10 ³ /uL	23 RDW-SD	40.4	35.0-56.0	fL
9 Mon#	0.57	0.10-0.60	10 ³ /uL	24 PLT	262	125-350	10 ³ /uL
10 Eos#	0.15	0.02-0.52	10 ³ /uL	25 MPV	10.5	6.5-12.0	fL
11 Bas#	0.02	0.00-0.06	10 ³ /uL	26 PDW	11.6	9.0-17.0	fL
12 *ALY#	0.09	0.00-0.20	10 ³ /uL	27 PCT	0.275	0.108-0.282	%
13 *ALY%	1.0	0.0-2.0	%	28 P-LCR	29.2	11.0-45.0	%
14 *LIC#	0.00	0.00-0.20	10 ³ /uL	29 P-LCC	77	30-90	10 ⁹ /L
15 *LIC%	0.0	0.0-2.5	%				

*** means "Research use only, not for diagnostic use".

Sample Type:
Description:

Microscopic exam. Time:

Submitter:
Sampling Time: 2021/01/20 16:11
Report Time: 2021/01/21 14:59

Operator: admin
Delivery Time: 2021/01/20 16:11
Remarks:

Approver:
Validated Time:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:

Sample ID: PRECISION CHECK 1-7

Department:

Run Time: 2021/01/20 16:12

Med Rec. No.:

Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	8.31	3.50-9.50	10 ³ /uL	16 RBC	4.35	3.80-5.80	10 ⁶ /uL
2 Neu%	51.1	40.0-75.0	%	17 HGB	12.9	11.5-17.5	g/dL
3 Lym%	39.7	20.0-50.0	%	18 HCT	37.3	35.0-50.0	%
4 Mon%	6.8	3.0-10.0	%	19 MCV	85.8	82.0-100.0	fL
5 Eos%	2.1	0.4-8.0	%	20 MCH	29.7	27.0-34.0	pg
6 Bas%	0.3	0.0-1.0	%	21 MCHC	34.6	31.6-35.4	g/dL
7 Neu#	4.25	1.80-6.30	10 ³ /uL	22 RDW-CV	13.1	11.0-16.0	%
8 Lym#	3.30	1.10-3.20	10 ³ /uL	23 RDW-SD	40.2	35.0-56.0	fL
9 Mon#	0.57	0.10-0.60	10 ³ /uL	24 PLT	255	125-350	10 ³ /uL
10 Eos#	0.17	0.02-0.52	10 ³ /uL	25 MPV	10.6	6.5-12.0	fL
11 Bas#	0.02	0.00-0.06	10 ³ /uL	26 PDW	12.7	9.0-17.0	fL
12 *ALY#	0.09	0.00-0.20	10 ³ /uL	27 PCT	0.269	0.108-0.282	%
13 *ALY%	1.1	0.0-2.0	%	28 P-LCR	30.6	11.0-45.0	%
14 *LIC#	0.00	0.00-0.20	10 ³ /uL	29 P-LCC	78	30-90	10 ⁹ /L
15 *LIC%	0.0	0.0-2.5	%				

**** means "Research use only, not for diagnostic use".

Sample Type:
Description:

Microscopic exam. Time:

Submitter:

Operator: admin

Approver:

Sampling Time: 2021/01/20 16:12

Delivery Time: 2021/01/20 16:12

Validated Time:

Report Time: 2021/01/21 14:59

Remarks:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

LIKHITHA'S

Diagnostics - Speciality Lab

Dymind DH 76

(5 Part Diff Hematology Analyser)

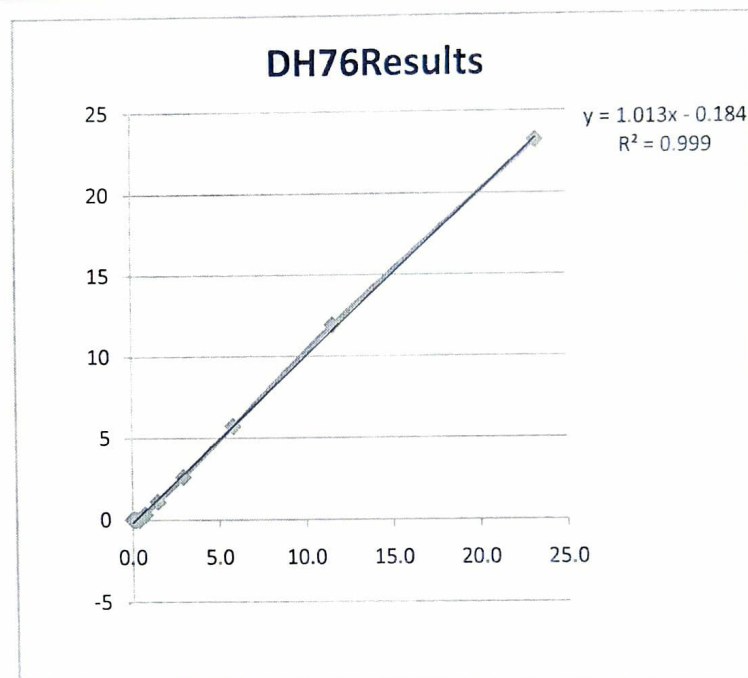
S.N. DM11051809001

Linearity Study

REPORTABLE RANGE EXPERIMENT FOR LINEARITY

Location:	Likhitha's Diagnostics - Speciality Lab. KPHB
Instrument:	DH76 DYMIN D
HOD	Dr. Zehratul Quresh
Name Of Technologist	Mr. Shiva
Analyte	Hemoglobin
AMR	0.0 - 25.0 g/dl
Date:	22/1/2021

Sr. No.	Date	Sample ID	Dilution Ratio	Expected Recovery	DH76Results
1	22/1/2021	LINEARITY CHECK 1.1	NEAT	23.2	23.2
2	22/1/2021	LINEARITY CHECK 1.2	1:1	11.6	11.9
3	22/1/2021	LINEARITY CHECK 1.3	1:2	5.8	5.7
4	22/1/2021	LINEARITY CHECK 1.4	1:4	2.9	2.6
5	22/1/2021	LINEARITY CHECK 1.5	1:8	1.5	1.1
6	22/1/2021	LINEARITY CHECK 1.6	1:16	0.7	0.3
7	22/1/2021	LINEARITY CHECK 1.7	1:32	0.4	0
8	22/1/2021	LINEARITY CHECK 1.8	1:64	0.2	0
9	22/1/2021	LINEARITY CHECK 1.9	1:128	0.1	0
10	22/1/2021	LINEARITY CHECK 1.10	1:256	0.0	0
11	22/1/2021	LINEARITY CHECK 1.11	1:512	0.0	0
12	22/1/2021	LINEARITY CHECK 1.12	1:1024	0.0	0



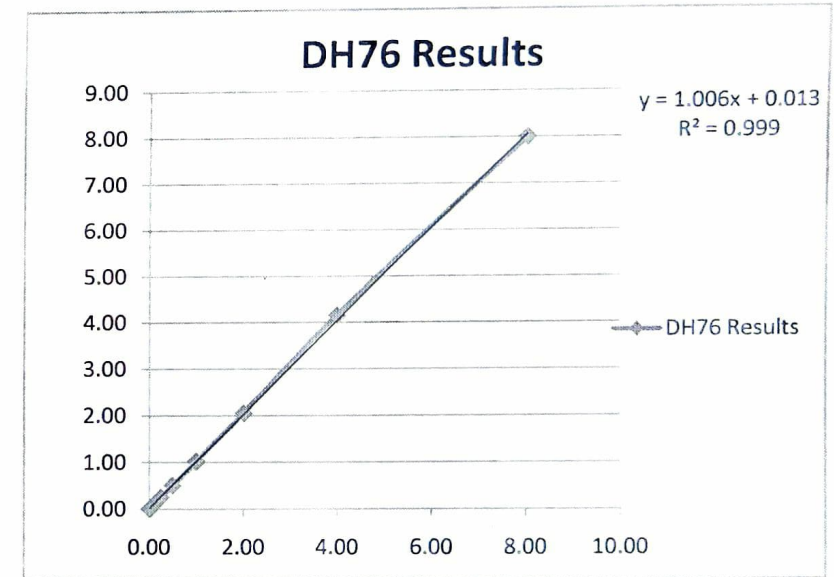
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22/1/21

REPORTABLE RANGE EXPERIMENT FOR LINEARITY

Location:	Likhitha's Diagnostics - Speciality Lab. KPHB
Instrument:	DH76 DYMIND
HOD	Dr. Zehratul Quresh
Name Of Technologist	Mr. Shiva
Analyte	RBC
AMR	0.0 - 8.50 X 10 ⁶ /μl
Date:	22/1/2021

Sr. No.	Date	Sample ID	Dilution Ratio	Expected Recovery	DH76 Results
1	22/1/2021	LINEARITY CHECK 1.1	NEAT	8.00	8.00
2	22/1/2021	LINEARITY CHECK 1.1	1:1	4.00	4.15
3	22/1/2021	LINEARITY CHECK 1.1	1:2	2.00	2.05
4	22/1/2021	LINEARITY CHECK 1.1	1:4	1.00	1.02
5	22/1/2021	LINEARITY CHECK 1.1	1:8	0.50	0.51
6	22/1/2021	LINEARITY CHECK 1.1	1:16	0.25	0.26
7	22/1/2021	LINEARITY CHECK 1.1	1:32	0.13	0.13
8	22/1/2021	LINEARITY CHECK 1.1	1:64	0.06	0.07
9	22/1/2021	LINEARITY CHECK 1.1	1:128	0.03	0.03
10	22/1/2021	LINEARITY CHECK 1.1	1:256	0.02	0.02
11	22/1/2021	LINEARITY CHECK 1.1	1:512	0.01	0.01
12	22/1/2021	LINEARITY CHECK 1.1	1:1024	0.00	0.00



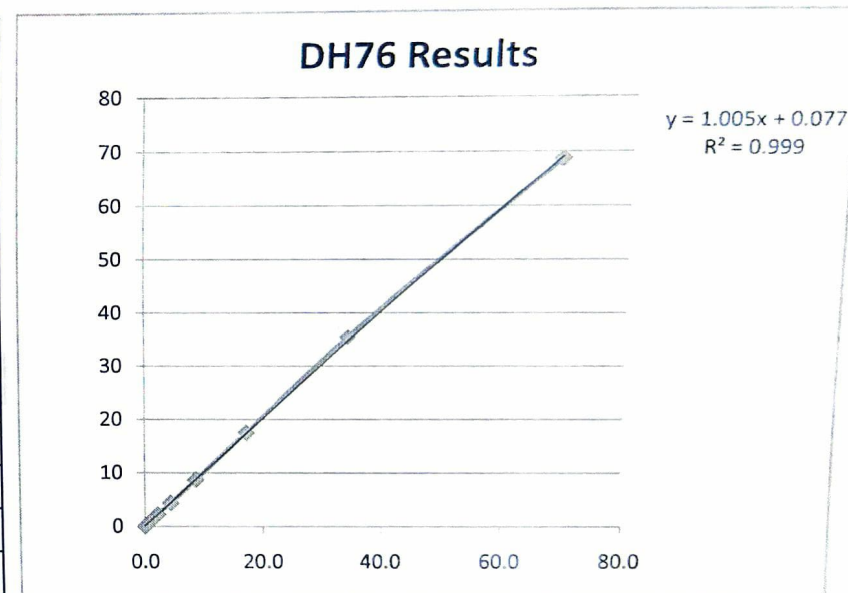
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Handwritten signature and date: 22/1/21

REPORTABLE RANGE EXPERIMENT FOR LINEARITY

Location:	Likhitha's Diagnostics - Speciality Lab. KPHB
Instrument:	DH76 DYMIN D
HOD	Dr. Zehratal Quresh
Name Of Technologist	Mr. Shiva
Analyte	HCT
AMR	0.0 - 67 %
Date:	22/1/2021

Sr. No.	Date	Sample ID	Dilution Ratio	Expected Recovery	DH76 Results
1	22/1/2021	LINEARITY CHECK 1.1	NEAT	68.7	68.7
2	22/1/2021	LINEARITY CHECK 1.2	1:1	34.4	35.4
3	22/1/2021	LINEARITY CHECK 1.3	1:2	17.2	17.5
4	22/1/2021	LINEARITY CHECK 1.4	1:4	8.6	8.7
5	22/1/2021	LINEARITY CHECK 1.5	1:8	4.3	4.3
6	22/1/2021	LINEARITY CHECK 1.6	1:16	2.1	2.2
7	22/1/2021	LINEARITY CHECK 1.7	1:32	1.1	1.1
8	22/1/2021	LINEARITY CHECK 1.8	1:64	0.5	0.6
9	22/1/2021	LINEARITY CHECK 1.9	1:128	0.3	0.3
10	22/1/2021	LINEARITY CHECK 1.10	1:256	0.1	0.1
11	22/1/2021	LINEARITY CHECK 1.11	1:512	0.1	0.1
12	22/1/2021	LINEARITY CHECK 1.12	1:1024	0.0	0



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Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: LINEARITY CHECK 1-0
Run Time: 2021/01/22 12:40
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	7.53	3.50-9.50	10 ³ /uL	16 RBC	8.00 ↑	3.80-5.80	10 ⁶ /uL
2 Neu%	50.9	40.0-75.0	%	17 HGB	23.2 ↑	11.5-17.5	g/dL
3 Lym%	42.6	20.0-50.0	%	18 HCT	68.7 ↑	35.0-50.0	%
4 Mon%	3.2	3.0-10.0	%	19 MCV	85.8	82.0-100.0	fL
5 Eos%	3.1	0.4-8.0	%	20 MCH	29.0	27.0-34.0	pg
6 Bas%	0.2	0.0-1.0	%	21 MCHC	33.8	31.6-35.4	g/dL
7 Neu#	3.83	1.80-6.30	10 ³ /uL	22 RDW-CV	12.9	11.0-16.0	%
8 Lym#	3.21 ↑	1.10-3.20	10 ³ /uL	23 RDW-SD	38.4	35.0-56.0	fL
9 Mon#	0.24	0.10-0.60	10 ³ /uL	24 PLT	164	125-350	10 ³ /uL
10 Eos#	0.23	0.02-0.52	10 ³ /uL	25 MPV	11.1	6.5-12.0	fL
11 Bas#	0.02	0.00-0.06	10 ³ /uL	26 PDW	14.8	9.0-17.0	fL
12*ALY#	0.04	0.00-0.20	10 ³ /uL	27 PCT	0.182	0.108-0.282	%
13*ALY%	0.5	0.0-2.0	%	28 P-LCR	34.6	11.0-45.0	%
14*LIC#	0.00	0.00-0.20	10 ³ /uL	29 P-LCC	57	30-90	10 ⁹ /L
15*LIC%	0.0	0.0-2.5	%				

**** means "Research use only, not for diagnostic use".

Microscopic exam. Time:

Sample Type:
Description:

Submitter: Operator: service Approver:
Sampling Time: 2021/01/22 12:40 Delivery Time: 2021/01/22 12:40 Validated Time:
Report Time: 2021/01/22 12:49 Remarks:

*The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.

Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: LINEARITY CHECK 1-1
Run Time: 2021/01/22 12:47
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	3.81	3.50-9.50	10 ³ /uL	16 RBC	4.15	3.80-5.80	10 ⁶ /uL
2 Neu%	51.5	40.0-75.0	%	17 HGB	11.9	11.5-17.5	g/dL
3 Lym%	41.9	20.0-50.0	%	18 HCT	35.4	35.0-50.0	%
4 Mon%	3.4	3.0-10.0	%	19 MCV	85.2	82.0-100.0	fL
5 Eos%	3.1	0.4-8.0	%	20 MCH	28.7	27.0-34.0	pg
6 Bas%	0.1	0.0-1.0	%	21 MCHC	33.7	31.6-35.4	g/dL
7 Neu#	1.95	1.80-6.30	10 ³ /uL	22 RDW-CV	12.7	11.0-16.0	%
8 Lym#	1.60	1.10-3.20	10 ³ /uL	23 RDW-SD	38.2	35.0-56.0	fL
9 Mon#	0.13	0.10-0.60	10 ³ /uL	24 PLT	77 ↓	125-350	10 ³ /uL
10 Eos#	0.12	0.02-0.52	10 ³ /uL	25 MPV	11.4	6.5-12.0	fL
11 Bas#	0.01	0.00-0.06	10 ³ /uL	26 PDW	13.2	9.0-17.0	fL
12 *ALY#	0.02	0.00-0.20	10 ³ /uL	27 PCT	0.087 ↓	0.108-0.282	%
13 *ALY%	0.5	0.0-2.0	%	28 P-LCR	35.2	11.0-45.0	%
14 *LIC#	0.00	0.00-0.20	10 ³ /uL	29 P-LCC	27 ↓	30-90	10 ⁹ /L
15 *LIC%	0.0	0.0-2.5	%				

*** means "Research use only, not for diagnostic use".

Sample Type:
Description:

Microscopic exam. Time:

Submitter:

Operator: service

Approver:

Sampling Time: 2021/01/22 12:47

Delivery Time: 2021/01/22 12:47

Validated Time:

Report Time: 2021/01/22 12:49

Remarks:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: LINEARITY CHECK 1-2
Run Time: 2021/01/22 12:49
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	1.88 ↓	3.50-9.50	10 ³ /uL	16 RBC	2.05 ↓	3.80-5.80	10 ⁶ /uL
2 Neu%	48.4	40.0-75.0	%	17 HGB	5.7 ↓	11.5-17.5	g/dL
3 Lym%	44.9	20.0-50.0	%	18 HCT	17.5 ↓	35.0-50.0	%
4 Mon%	2.6 ↓	3.0-10.0	%	19 MCV	85.0	82.0-100.0	fL
5 Eos%	3.6	0.4-8.0	%	20 MCH	27.7	27.0-34.0	pg
6 Bas%	0.5	0.0-1.0	%	21 MCHC	32.6	31.6-35.4	g/dL
7 Neu#	0.91 ↓	1.80-6.30	10 ³ /uL	22 RDW-CV	12.5	11.0-16.0	%
8 Lym#	0.84 ↓	1.10-3.20	10 ³ /uL	23 RDW-SD	37.9	35.0-56.0	fL
9 Mon#	0.05 ↓	0.10-0.60	10 ³ /uL	24 PLT	37 ↓	125-350	10 ³ /uL
10 Eos#	0.07	0.02-0.52	10 ³ /uL	25 MPV	10.9	6.5-12.0	fL
11 Bas#	0.01	0.00-0.06	10 ³ /uL	26 PDW	12.4	9.0-17.0	fL
12 *ALY#	0.01	0.00-0.20	10 ³ /uL	27 PCT	0.040 ↓	0.108-0.282	%
13 *ALY%	0.7	0.0-2.0	%	28 P-LCR	30.6	11.0-45.0	%
14 *LIC#	0.00	0.00-0.20	10 ³ /uL	29 P-LCC	11 ↓	30-90	10 ⁹ /L
15 *LIC%	0.0	0.0-2.5	%				

*** means "Research use only, not for diagnostic use".

Sample Type:
Description:

Microscopic exam. Time:

Submitter:

Operator: service

Approver:

Sampling Time: 2021/01/22 12:49

Delivery Time: 2021/01/22 12:49

Validated Time:

Report Time: 2021/01/22 13:04

Remarks:

*The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.

Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: LINEARITY CHECK 1-4
Run Time: 2021/01/22 12:50
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	0.96 ↓	3.50-9.50	10 ³ /uL	16 RBC	1.02 ↓	3.80-5.80	10 ⁶ /uL
2 Neu%	45.9	40.0-75.0	%	17 HGB	2.6 ↓	11.5-17.5	g/dL
3 Lym%	46.6	20.0-50.0	%	18 HCT	8.7 ↓	35.0-50.0	%
4 Mon%	3.0	3.0-10.0	%	19 MCV	85.2	82.0-100.0	fL
5 Eos%	4.1	0.4-8.0	%	20 MCH	25.7 ↓	27.0-34.0	pg
6 Bas%	0.4	0.0-1.0	%	21 MCHC	30.2 ↓	31.6-35.4	g/dL
7 Neu#	0.44 ↓	1.80-6.30	10 ³ /uL	22 RDW-CV	12.2	11.0-16.0	%
8 Lym#	0.44 ↓	1.10-3.20	10 ³ /uL	23 RDW-SD	37.4	35.0-56.0	fL
9 Mon#	0.03 ↓	0.10-0.60	10 ³ /uL	24 PLT	12 ↓	125-350	10 ³ /uL
10 Eos#	0.04	0.02-0.52	10 ³ /uL	25 MPV	9.6	6.5-12.0	fL
11 Bas#	0.01	0.00-0.06	10 ³ /uL	26 PDW	12.9	9.0-17.0	fL
12 *ALY#	0.01	0.00-0.20	10 ³ /uL	27 PCT	0.012 ↓	0.108-0.282	%
13 *ALY%	0.6	0.0-2.0	%	28 P-LCR	22.7	11.0-45.0	%
14 *LIC#	0.00	0.00-0.20	10 ³ /uL	29 P-LCC	3 ↓	30-90	10 ⁹ /L
15 *LIC%	0.0	0.0-2.5	%				

**** means "Research use only, not for diagnostic use".

Sample Type:
Description:

Microscopic exam. Time:

Submitter:

Operator: service

Approver:

Sampling Time: 2021/01/22 12:50

Delivery Time: 2021/01/22 12:50

Validated Time:

Report Time: 2021/01/22 13:04

Remarks:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: LINEARITY CHECK 1-8
Run Time: 2021/01/22 12:51
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	0.47 ↓	3.50-9.50	10 ³ /uL	16 RBC	0.51 ↓	3.80-5.80	10 ⁶ /uL
2 Neu%	***	40.0-75.0	%	17 HGB	1.1 ↓	11.5-17.5	g/dL
3 Lym%	***	20.0-50.0	%	18 HCT	4.3 ↓	35.0-50.0	%
4 Mon%	***	3.0-10.0	%	19 MCV	85.0	82.0-100.0	fL
5 Eos%	***	0.4-8.0	%	20 MCH	20.9 ↓	27.0-34.0	pg
6 Bas%	***	0.0-1.0	%	21 MCHC	24.6 ↓	31.6-35.4	g/dL
7 Neu#	*** **	1.80-6.30	10 ³ /uL	22 RDW-CV	12.5	11.0-16.0	%
8 Lym#	*** **	1.10-3.20	10 ³ /uL	23 RDW-SD	38.2	35.0-56.0	fL
9 Mon#	*** **	0.10-0.60	10 ³ /uL	24 PLT	3 ↓	125-350	10 ³ /uL
10 Eos#	*** **	0.02-0.52	10 ³ /uL	25 MPV	***	6.5-12.0	fL
11 Bas#	*** **	0.00-0.06	10 ³ /uL	26 PDW	***	9.0-17.0	fL
12 *ALY#	*** **	0.00-0.20	10 ³ /uL	27 PCT	***	0.108-0.282	%
13 *ALY%	***	0.0-2.0	%	28 P-LCR	***	11.0-45.0	%
14 *LIC#	*** **	0.00-0.20	10 ³ /uL	29 P-LCC	****	30-90	10 ⁹ /L
15 *LIC%	***	0.0-2.5	%				

*** means "Research use only, not for diagnostic use".

Sample Type:
Description:

Microscopic exam. Time:

Submitter:

Operator: service

Approver:

Sampling Time: 2021/01/22 12:51

Delivery Time: 2021/01/22 12:51

Validated Time:

Report Time: 2021/01/22 13:04

Remarks:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: LINEARITY CHECK 1-16
Run Time: 2021/01/22 12:52
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	0.27 ↓	3.50-9.50	10 ³ /uL	16 RBC	0.26 ↓	3.80-5.80	10 ⁶ /uL
2 Neu%	***	40.0-75.0	%	17 HGB	0.3 ↓	11.5-17.5	g/dL
3 Lym%	***	20.0-50.0	%	18 HCT	2.2 ↓	35.0-50.0	%
4 Mon%	***	3.0-10.0	%	19 MCV	84.7	82.0-100.0	fL
5 Eos%	***	0.4-8.0	%	20 MCH	11.5 ↓	27.0-34.0	pg
6 Bas%	***	0.0-1.0	%	21 MCHC	13.5 ↓	31.6-35.4	g/dL
7 Neu#	*** **	1.80-6.30	10 ³ /uL	22 RDW-CV	12.2	11.0-16.0	%
8 Lym#	*** **	1.10-3.20	10 ³ /uL	23 RDW-SD	37.4	35.0-56.0	fL
9 Mon#	*** **	0.10-0.60	10 ³ /uL	24 PLT	1 ↓	125-350	10 ³ /uL
10 Eos#	*** **	0.02-0.52	10 ³ /uL	25 MPV	***	6.5-12.0	fL
11 Bas#	*** **	0.00-0.06	10 ³ /uL	26 PDW	***	9.0-17.0	fL
12 *ALY#	*** **	0.00-0.20	10 ³ /uL	27 PCT	***	0.108-0.282	%
13 *ALY%	***	0.0-2.0	%	28 P-LCR	**	11.0-45.0	%
14 *LIC#	*** **	0.00-0.20	10 ³ /uL	29 P-LCC	****	30-90	10 ⁹ /L
15 *LIC%	***	0.0-2.5	%				

*** means "Research use only, not for diagnostic use".

Sample Type:
Description:

Microscopic exam. Time:

Submitter:
Sampling Time: 2021/01/22 12:52
Report Time: 2021/01/22 13:04

Operator: service
Delivery Time: 2021/01/22 12:52
Remarks:

Approver:
Validated Time:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: LINEARITY CHECK 1-32
Run Time: 2021/01/22 12:53
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	0.14 ↓	3.50-9.50	10 ³ /uL	16 RBC	0.13 ↓	3.80-5.80	10 ⁶ /uL
2 Neu%	***	40.0-75.0	%	17 HGB	0.0 ↓	11.5-17.5	g/dL
3 Lym%	***	20.0-50.0	%	18 HCT	1.1 ↓	35.0-50.0	%
4 Mon%	***	3.0-10.0	%	19 MCV	***	82.0-100.0	fL
5 Eos%	***	0.4-8.0	%	20 MCH	***	27.0-34.0	pg
6 Bas%	***	0.0-1.0	%	21 MCHC	***	31.6-35.4	g/dL
7 Neu#	*** **	1.80-6.30	10 ³ /uL	22 RDW-CV	***	11.0-16.0	%
8 Lym#	*** **	1.10-3.20	10 ³ /uL	23 RDW-SD	***	35.0-56.0	fL
9 Mon#	*** **	0.10-0.60	10 ³ /uL	24 PLT	0 ↓	125-350	10 ³ /uL
10 Eos#	*** **	0.02-0.52	10 ³ /uL	25 MPV	***	6.5-12.0	fL
11 Bas#	*** **	0.00-0.06	10 ³ /uL	26 PDW	***	9.0-17.0	fL
12 *ALY#	*** **	0.00-0.20	10 ³ /uL	27 PCT	***	0.108-0.282	%
13 *ALY%	***	0.0-2.0	%	28 P-LCR	***	11.0-45.0	%
14 *LIC#	*** **	0.00-0.20	10 ³ /uL	29 P-LCC	****	30-90	10 ⁹ /L
15 *LIC%	***	0.0-2.5	%				

*** means "Research use only, not for diagnostic use".

Microscopic exam. Time:

Sample Type:
Description:

Submitter:
Sampling Time: 2021/01/22 12:53
Report Time: 2021/01/22 13:04

Operator: service
Delivery Time: 2021/01/22 12:53
Remarks:

Approver:
Validated Time:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: LINEARITY CHECK 1-64
Run Time: 2021/01/22 12:55
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	0.08 ↓	3.50-9.50	10 ³ /uL	16 RBC	0.07 ↓	3.80-5.80	10 ⁶ /uL
2 Neu%	***	40.0-75.0	%	17 HGB	0.0 ↓	11.5-17.5	g/dL
3 Lym%	***	20.0-50.0	%	18 HCT	0.6 ↓	35.0-50.0	%
4 Mon%	***	3.0-10.0	%	19 MCV	***	82.0-100.0	fL
5 Eos%	***	0.4-8.0	%	20 MCH	***	27.0-34.0	pg
6 Bas%	***	0.0-1.0	%	21 MCHC	***	31.6-35.4	g/dL
7 Neu#	*** **	1.80-6.30	10 ³ /uL	22 RDW-CV	**	11.0-16.0	%
8 Lym#	*** **	1.10-3.20	10 ³ /uL	23 RDW-SD	***	35.0-56.0	fL
9 Mon#	*** **	0.10-0.60	10 ³ /uL	24 PLT	0 ↓	125-350	10 ³ /uL
10 Eos#	*** **	0.02-0.52	10 ³ /uL	25 MPV	**	6.5-12.0	fL
11 Bas#	*** **	0.00-0.06	10 ³ /uL	26 PDW	**	9.0-17.0	fL
12 *ALY#	*** **	0.00-0.20	10 ³ /uL	27 PCT	***	0.108-0.282	%
13 *ALY%	**	0.0-2.0	%	28 P-LCR	**	11.0-45.0	%
14 *LIC#	*** **	0.00-0.20	10 ³ /uL	29 P-LCC	***	30-90	10 ⁹ /L
15 *LIC%	**	0.0-2.5	%				

*** means "Research use only, not for diagnostic use".

Sample Type:
Description:

Microscopic exam. Time:

Submitter:

Operator: service

Approver:

Sampling Time: 2021/01/22 12:55

Delivery Time: 2021/01/22 12:55

Validated Time:

Report Time: 2021/01/22 13:04

Remarks:

*The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.

Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: LINEARITY CHECK 1-128
Run Time: 2021/01/22 12:57
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	0.02 ↓	3.50-9.50	10 ³ /uL	16 RBC	0.03 ↓	3.80-5.80	10 ⁶ /uL
2 Neu%	***	40.0-75.0	%	17 HGB	0.0 ↓	11.5-17.5	g/dL
3 Lym%	***	20.0-50.0	%	18 HCT	0.3 ↓	35.0-50.0	%
4 Mon%	***	3.0-10.0	%	19 MCV	****	82.0-100.0	fL
5 Eos%	***	0.4-8.0	%	20 MCH	****	27.0-34.0	pg
6 Bas%	***	0.0-1.0	%	21 MCHC	****	31.6-35.4	g/dL
7 Neu#	****	1.80-6.30	10 ³ /uL	22 RDW-CV	**	11.0-16.0	%
8 Lym#	****	1.10-3.20	10 ³ /uL	23 RDW-SD	****	35.0-56.0	fL
9 Mon#	****	0.10-0.60	10 ³ /uL	24 PLT	0 ↓	125-350	10 ³ /uL
10 Eos#	****	0.02-0.52	10 ³ /uL	25 MPV	**	6.5-12.0	fL
11 Bas#	****	0.00-0.06	10 ³ /uL	26 PDW	**	9.0-17.0	fL
12 *ALY#	****	0.00-0.20	10 ³ /uL	27 PCT	***	0.108-0.282	%
13 *ALY%	**	0.0-2.0	%	28 P-LCR	**	11.0-45.0	%
14 *LIC#	****	0.00-0.20	10 ³ /uL	29 P-LCC	****	30-90	10 ⁹ /L
15 *LIC%	**	0.0-2.5	%				

**** means "Research use only, not for diagnostic use".

Microscopic exam. Time:

Sample Type:
Description:

Submitter: Operator: service Approver:
Sampling Time: 2021/01/22 12:57 Delivery Time: 2021/01/22 12:57 Validated Time:
Report Time: 2021/01/22 13:04 Remarks:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: LINEARITY CHECK 1-256
Run Time: 2021/01/22 12:59
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	0.02 ↓	3.50-9.50	10 ³ /uL	16 RBC	0.02 ↓	3.80-5.80	10 ⁶ /uL
2 Neu%	***	40.0-75.0	%	17 HGB	0.0 ↓	11.5-17.5	g/dL
3 Lym%	***	20.0-50.0	%	18 HCT	0.1 ↓	35.0-50.0	%
4 Mon%	***	3.0-10.0	%	19 MCV	***	82.0-100.0	fL
5 Eos%	***	0.4-8.0	%	20 MCH	***	27.0-34.0	pg
6 Bas%	***	0.0-1.0	%	21 MCHC	***	31.6-35.4	g/dL
7 Neu#	*** **	1.80-6.30	10 ³ /uL	22 RDW-CV	***	11.0-16.0	%
8 Lym#	*** **	1.10-3.20	10 ³ /uL	23 RDW-SD	***	35.0-56.0	fL
9 Mon#	*** **	0.10-0.60	10 ³ /uL	24 PLT	0 ↓	125-350	10 ³ /uL
10 Eos#	*** **	0.02-0.52	10 ³ /uL	25 MPV	***	6.5-12.0	fL
11 Bas#	*** **	0.00-0.06	10 ³ /uL	26 PDW	***	9.0-17.0	fL
12 *ALY#	*** **	0.00-0.20	10 ³ /uL	27 PCT	***	0.108-0.282	%
13 *ALY%	***	0.0-2.0	%	28 P-LCR	***	11.0-45.0	%
14 *LIC#	*** **	0.00-0.20	10 ³ /uL	29 P-LCC	****	30-90	10 ⁹ /L
15 *LIC%	***	0.0-2.5	%				

*** means "Research use only, not for diagnostic use".

Sample Type:
Description:

Microscopic exam. Time:

Submitter: Operator: service Approver:
Sampling Time: 2021/01/22 12:59 Delivery Time: 2021/01/22 12:59 Validated Time:
Report Time: 2021/01/22 13:09 Remarks:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Hematology Analysis Report

Sample Type:

Sample ID: LINEARITY CHECK 1-512

Department:

Run Time: 2021/01/22 13:00

Med Rec. No.:

Diagnosis:

First Name
Last Name
Gender
Age

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	0.01 ↓	3.50-9.50	10 ³ /uL	16 RBC	0.01 ↓	3.80-5.80	10 ⁶ /uL
2 Neu%	***	40.0-75.0	%	17 HGB	0.0 ↓	11.5-17.5	g/dL
3 Lym%	***	20.0-50.0	%	18 HCT	0.1 ↓	35.0-50.0	%
4 Mon%	***	3.0-10.0	%	19 MCV	***	82.0-100.0	fL
5 Eos%	***	0.4-8.0	%	20 MCH	***	27.0-34.0	pg
6 Bas%	***	0.0-1.0	%	21 MCHC	***	31.6-35.4	g/dL
7 Neu#	****	1.80-6.30	10 ³ /uL	22 RDW-CV	**	11.0-16.0	%
8 Lym#	****	1.10-3.20	10 ³ /uL	23 RDW-SD	***	35.0-56.0	fL
9 Mon#	****	0.10-0.60	10 ³ /uL	24 PLT	0 ↓	125-350	10 ³ /uL
10 Eos#	****	0.02-0.52	10 ³ /uL	25 MPV	**	6.5-12.0	fL
11 Bas#	****	0.00-0.06	10 ³ /uL	26 PDW	**	9.0-17.0	fL
12 *ALY#	****	0.00-0.20	10 ³ /uL	27 PCT	***	0.108-0.282	%
13 *ALY%	**	0.0-2.0	%	28 P-LCR	**	11.0-45.0	%
14 *LIC#	****	0.00-0.20	10 ³ /uL	29 P-LCC	****	30-90	10 ⁹ /L
15 *LIC%	**	0.0-2.5	%				

*** means "Research use only, not for diagnostic use".

Sample Type:

Microscopic exam. Time:

Description:

Submitter:

Operator: service

Approver:

Sampling Time: 2021/01/22 13:00

Delivery Time: 2021/01/22 13:00

Validated Time:

Report Time: 2021/01/22 13:09

Remarks:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Hematology Analysis Report

Sample Type:

Sample ID: LINEARITY CHECK 1-1024

Department:

Run Time: 2021/01/22 13:03

Med Rec. No.:

Diagnosis:

Age
Gender
Name

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	0.02 ↓	3.50-9.50	10 ³ /uL	16 RBC	0.00 ↓	3.80-5.80	10 ⁶ /uL
2 Neu%	***	40.0-75.0	%	17 HGB	0.0 ↓	11.5-17.5	g/dL
3 Lym%	***	20.0-50.0	%	18 HCT	0.0 ↓	35.0-50.0	%
4 Mon%	***	3.0-10.0	%	19 MCV	***	82.0-100.0	fL
5 Eos%	***	0.4-8.0	%	20 MCH	***	27.0-34.0	pg
6 Bas%	***	0.0-1.0	%	21 MCHC	***	31.6-35.4	g/dL
7 Neu#	****	1.80-6.30	10 ³ /uL	22 RDW-CV	**	11.0-16.0	%
8 Lym#	****	1.10-3.20	10 ³ /uL	23 RDW-SD	***	35.0-56.0	fL
9 Mon#	****	0.10-0.60	10 ³ /uL	24 PLT	0 ↓	125-350	10 ³ /uL
10 Eos#	****	0.02-0.52	10 ³ /uL	25 MPV	**	6.5-12.0	fL
11 Bas#	****	0.00-0.06	10 ³ /uL	26 PDW	**	9.0-17.0	fL
12 *ALY#	****	0.00-0.20	10 ³ /uL	27 PCT	**	0.108-0.282	%
13 *ALY%	**	0.0-2.0	%	28 P-LCR	**	11.0-45.0	%
14 *LIC#	****	0.00-0.20	10 ³ /uL	29 P-LCC	***	30-90	10 ⁹ /L
15 *LIC%	**	0.0-2.5	%				

**** means "Research use only, not for diagnostic use".

Microscopic exam. Time:

Sample Type:
Description:

Submitter: Operator: service Approver:
 Sampling Time: 2021/01/22 13:03 Delivery Time: 2021/01/22 13:03 Validated Time:
 Report Time: 2021/01/22 13:09 Remarks:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

LIKHTHA'S

Diagnostics - Speciality Lab

Dymind DH 76

(5 Part Diff Hematology Analyser)

S.N. DM11051809001

Carryover Study

CARRYOVER STUDY ON DYMIND DH76

The carry over study was conducted at Likhitha Diagnostics & Speciality Lab, KUKATAPALLI, Hyderabad, on DYMIND DH-76, 5 part fully automated Hematology Cell counter.

Carryover indicates the extent to which measurement of an analyte in a specimen is likely to be affected by the preceding specimen, which in this study was a patient sample with high values for WBC, RBC, HGB, HCT% & PLT, than the specimen that followed it.

The High Value sample was run for 3 consecutive runs & then was followed by the Low value specimen with 3 consecutive runs. The reports of the same is attached along the report for ready reference. The tabular format of the consecutive run reports as given below simplifies the procedure for a better assessment of the same.

PARAMETERS	HIGH VALUE SAMPLE			LOW VALUE SAMPLE		
	H1	H2	H3	L1	L2	L3
WBC	18.23	18.13	19.05	3.82	3.66	3.80
RBC	5.33	5.26	5.24	2.56	2.54	2.56
HGB	16.9	16.9	16.8	6.0	6.0	6.0
PLT	612	616	633	55	63	51
HCT	55.4	54.7	54.2	21.4	21.1	21.4

The Carryover for each individual parameter (WBC, RBC, HGB, HCT & PLT) was calculated based on the formula as mentioned below

$$\text{Carryover \%} = [(L1 - L3) / (H3 - L3)] \times 100$$

Wherein L1 & L3 represent the 1st & 3rd run of the lower value sample.
H3 represents the 3rd run of the High Value sample.

The table below shows the report of the study as per the results obtained & also the permissible limit or acceptable limit of Carryover study mentioned along for reference.

CARRY OVER STUDY RESULTS		
PARAMETERS	ACCEPTABLE RANGE	RESULTS OBTAINED IN STUDY
WBC	≤ 0.5%	0%
RBC	≤ 0.5%	0%
HGB	≤ 0.5%	0%
HCT	≤ 0.5%	0%
PLT	≤ 1.0%	0%

Hence, based on the report obtained the instrument passes the Carryover study.



Kaishling



Hematology Analysis Report

First Name:
Last name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: H1
Run Time: 2021/04/20 16:38
Diagnosis:

Parameter	Result		Ref. Range	Unit	Display
1 WBC	18.23	↑	3.50-9.50	10³/uL	
2 Neu%	54.1		40.0-75.0	%	<p>WBC/BASO</p>
3 Lym%	1.4	↓	20.0-50.0	%	
4 Mon%	22.1	↑	3.0-10.0	%	
5 Eos%	2.6		0.4-8.0	%	
6 Bas%	19.8	↑	0.0-1.0	%	
7 Neu#	9.86	↑	1.80-6.30	10 ³ /uL	
8 Lym#	0.26	↓	1.10-3.20	10 ³ /uL	<p>RBC</p>
9 Mon#	4.03	↑	0.10-0.60	10 ³ /uL	
10 Eos#	0.47		0.02-0.52	10 ³ /uL	
11 Bas#	3.61	↑	0.00-0.06	10 ³ /uL	
12 *ALY#	0.01		0.00-0.20	10 ³ /uL	
13 *ALY%	0.0		0.0-2.0	%	<p>PLT</p>
14 *LIC#	0.81	↑	0.00-0.20	10 ³ /uL	
15 *LIC%	4.4	↑	0.0-2.5	%	
16 RBC	5.33		3.80-5.80	10⁶/uL	<p>LS</p>
17 HGB	16.9		11.5-17.5	g/dL	
18 HCT	55.4	↑	35.0-50.0	%	
19 MCV	103.9	↑	82.0-100.0	fL	
20 MCH	31.8		27.0-34.0	pg	
21 MCHC	30.6	↓	31.6-35.4	g/dL	
22 RDW-CV	22.4	↑	11.0-16.0	%	
23 RDW-SD	81.3	↑	35.0-56.0	fL	<p>LS</p>
24 PLT	612	↑	125-350	10³/uL	
25 MPV	11.7		6.5-12.0	fL	<p>HS</p>
26 PDW	15.9		9.0-17.0	fL	
27 PCT	0.718	↑	0.108-0.282	%	
28 P-LCR	38.5		11.0-45.0	%	
29 P-LCC	235	↑	30-90	10 ⁹ /L	

**** means "Research use only, not for diagnostic use".

Submitter:

Sampling Time: 2021/04/20 16:38

Report Time: 2021/04/20 17:21

Operator: admin

Delivery Time: 2021/04/20 16:38

Remarks:

Approver:

Validated Time:

*The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.

kaishang

Hematology Analysis Report

First Name:
Last name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: H2
Run Time: 2021/04/20 16:39
Diagnosis:

Parameter	Result		Ref. Range	Unit	Display
1 WBC	18.13	↑	3.50-9.50	10³/uL	
2 Neu%	55.3		40.0-75.0	%	<p>WBC/BASO</p>
3 Lym%	1.6	↓	20.0-50.0	%	
4 Mon%	21.2	↑	3.0-10.0	%	
5 Eos%	2.6		0.4-8.0	%	
6 Bas%	19.3	↑	0.0-1.0	%	
7 Neu#	10.03	↑	1.80-6.30	10 ³ /uL	
8 Lym#	0.29	↓	1 10-3 20	10 ³ /uL	<p>RBC</p>
9 Mon#	3.84	↑	0.10-0.60	10 ³ /uL	
10 Eos#	0.47		0.02-0.52	10 ³ /uL	
11 Bas#	3.50	↑	0.00-0.06	10 ³ /uL	
12 *ALY#	0.01		0.00-0.20	10 ³ /uL	<p>PLT</p>
13 *ALY%	0.1		0.0-2.0	%	
14 *LIC#	0.48	↑	0.00-0.20	10 ³ /uL	
15 *LIC%	2.6	↑	0.0-2.5	%	
16 RBC	5.26		3.80-5.80	10⁶/uL	
17 HGB	16.9		11.5-17.5	g/dL	<p>LS</p>
18 HCT	54.7	↑	35.0-50.0	%	
19 MCV	103.9	↑	82.0-100.0	fL	
20 MCH	32.1		27.0-34.0	pg	
21 MCHC	30.9	↓	31.6-35.4	g/dL	
22 RDW-CV	22.5	↑	11.0-16.0	%	<p>LS</p>
23 RDW-SD	81.3	↑	35.0-56.0	fL	
24 PLT	616	↑	125-350	10³/uL	
25 MPV	11.7		6.5-12.0	fL	<p>HS</p>
26 PDW	14.8		9.0-17.0	fL	
27 PCT	0.722	↑	0.108-0.282	%	
28 P-LCR	38.7		11.0-45.0	%	
29 P-LCC	238	↑	30-90	10 ⁹ /L	

**** means "Research use only, not for diagnostic use"

Submitter:
Sampling Time: 2021/04/20 16:39
Report Time: 2021/04/20 17:21

Operator: admin
Delivery Time: 2021/04/20 16:39
Remarks:

Approver:
Validated Time:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Handwritten signatures:

 Kaishun

Hematology Analysis Report

First Name:
Last name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: H3
Run Time: 2021/04/20 17:13
Diagnosis:

Parameter	Result		Ref. Range	Unit	Display
1 WBC	19.05	↑	3.50-9.50	10³/uL	
2 Neu%	54.2		40.0-75.0	%	
3 Lym%	1.1	↓	20.0-50.0	%	
4 Mon%	22.9	↑	3.0-10.0	%	
5 Eos%	2.0		0.4-8.0	%	
6 Bas%	19.8	↑	0.0-1.0	%	
7 Neu#	10.33	↑	1.80-6.30	10 ³ /uL	
8 Lym#	0.21	↓	1.10-3.20	10 ³ /uL	
9 Mon#	4.36	↑	0.10-0.60	10 ³ /uL	
10 Eos#	0.38		0.02-0.52	10 ³ /uL	
11 Bas#	3.77	↑	0.00-0.06	10 ³ /uL	
12 *ALY#	0.01		0.00-0.20	10 ³ /uL	
13 *ALY%	0.0		0.0-2.0	%	
14 *LIC#	0.88	↑	0.00-0.20	10 ³ /uL	
15 *LIC%	4.6	↑	0.0-2.5	%	
16 RBC	5.24		3.80-5.80	10⁶/uL	
17 HGB	16.8		11.5-17.5	g/dL	
18 HCT	54.2	↑	35.0-50.0	%	
19 MCV	103.3	↑	82.0-100.0	fL	
20 MCH	32.1		27.0-34.0	pg	
21 MCHC	31.1	↓	31.6-35.4	g/dL	
22 RDW-CV	22.5	↑	11.0-16.0	%	
23 RDW-SD	80.9	↑	35.0-56.0	fL	
24 PLT	633	↑	125-350	10³/uL	
25 MPV	11.8		6.5-12.0	fL	
26 PDW	13.7		9.0-17.0	fL	
27 PCT	0.744	↑	0.108-0.282	%	
28 P-LCR	38.2		11.0-45.0	%	
29 P-LCC	242	↑	30-90	10 ⁹ /L	

*** means "Research use only, not for diagnostic use".

Submitter:
Sampling Time: 2021/04/20 17:13
Report Time: 2021/04/20 17:21

Operator: admin
Delivery Time: 2021/04/20 17:13
Remarks:

Approver:
Validated Time:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Krishna

Hematology Analysis Report

First Name:
Last name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: L1
Run Time: 2021/04/20 16:33
Diagnosis:

Parameter	Result	Ref. Range	Unit	Display
1 WBC	3.82	3.50-9.50	10³/uL	
2 Neu%	53.7	40.0-75.0	%	<p>WBC/BASO</p>
3 Lym%	35.6	20.0-50.0	%	
4 Mon%	6.5	3.0-10.0	%	
5 Eos%	4.2	0.4-8.0	%	
6 Bas%	0.0	0.0-1.0	%	
7 Neu#	2.05	1.80-6.30	10 ³ /uL	
8 Lym#	1.36	1.10-3.20	10 ³ /uL	<p>RBC</p>
9 Mon#	0.25	0.10-0.60	10 ³ /uL	
10 Eos#	0.16	0.02-0.52	10 ³ /uL	
11 Bas#	0.00	0.00-0.06	10 ³ /uL	
12 *ALY#	*** **	0.00-0.20	10 ³ /uL	<p>PLT</p>
13 *ALY%	** *	0.0-2.0	%	
14 *LIC#	*** **	0.00-0.20	10 ³ /uL	
15 *LIC%	** *	0.0-2.5	%	
16 RBC	2.56 ↓	3.80-5.80	10⁶/uL	<p>LS</p>
17 HGB	6.0 ↓	11.5-17.5	g/dL	
18 HCT	21.4 ↓	35.0-50.0	%	<p>LS</p>
19 MCV	83.4	82.0-100.0	fL	
20 MCH	23.3 ↓	27.0-34.0	pg	
21 MCHC	28.0 ↓	31.6-35.4	g/dL	<p>HS</p>
22 RDW-CV	17.7 ↑	11.0-16.0	%	
23 RDW-SD	51.9	35.0-56.0	fL	
24 PLT	55 ↓	125-350	10³/uL	
25 MPV	9.6	6.5-12.0	fL	
26 PDW	9.9	9.0-17.0	fL	
27 PCT	0.053 ↓	0.108-0.282	%	
28 P-LCR	20.7	11.0-45.0	%	
29 P-LCC	11 ↓	30-90	10 ⁹ /L	

*** means "Research use only, not for diagnostic use".

Submitter:
Sampling Time: 2021/04/20 16:33
Report Time: 2021/04/20 17:20

Operator: admin
Delivery Time: 2021/04/20 16:33
Remarks:

Approver:
Validated Time:

***The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.**

Koishu

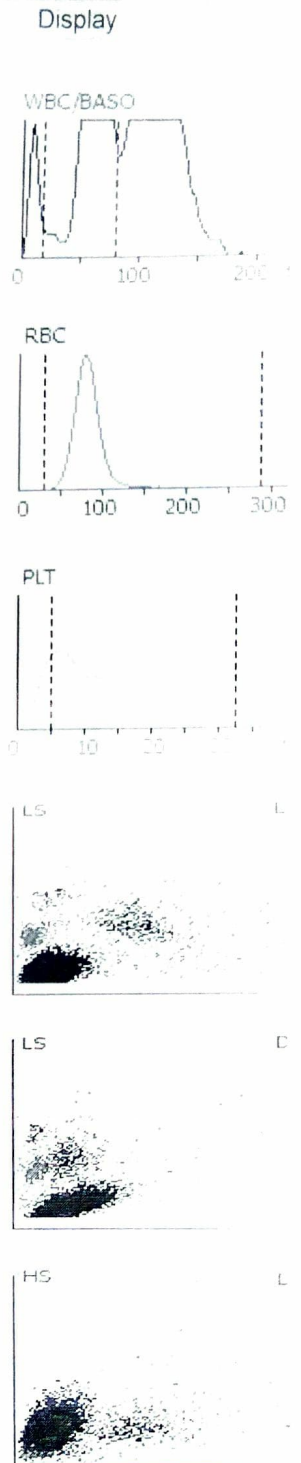
Hematology Analysis Report

First Name:
Last name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: L2
Run Time: 2021/04/20 16:35
Diagnosis:

Parameter	Result	Ref. Range	Unit
1 WBC	3.66	3.50-9.50	10 ³ /uL
2 Neu%	52.6	40.0-75.0	%
3 Lym%	34.1	20.0-50.0	%
4 Mon%	6.5	3.0-10.0	%
5 Eos%	5.1	0.4-8.0	%
6 Bas%	1.7	0.0-1.0	%
7 Neu#	1.92	1.80-6.30	10 ³ /uL
8 Lym#	1.25	1.10-3.20	10 ³ /uL
9 Mon#	0.24	0.10-0.60	10 ³ /uL
10 Eos#	0.19	0.02-0.52	10 ³ /uL
11 Bas#	0.06	0.00-0.06	10 ³ /uL
12 *ALY#	***	0.00-0.20	10 ³ /uL
13 *ALY%	**	0.0-2.0	%
14 *LIC#	***	0.00-0.20	10 ³ /uL
15 *LIC%	**	0.0-2.5	%
16 RBC	2.54	3.80-5.80	10 ⁶ /uL
17 HGB	6.0	11.5-17.5	g/dL
18 HCT	21.1	35.0-50.0	%
19 MCV	83.0	82.0-100.0	fL
20 MCH	23.7	27.0-34.0	pg
21 MCHC	28.6	31.6-35.4	g/dL
22 RDW-CV	17.8	11.0-16.0	%
23 RDW-SD	51.9	35.0-56.0	fL
24 PLT	63	125-350	10 ³ /uL
25 MPV	10.7	6.5-12.0	fL
26 PDW	9.4	9.0-17.0	fL
27 PCT	0.068	0.108-0.282	%
28 P-LCR	28.3	11.0-45.0	%
29 P-LCC	18	30-90	10 ⁹ /L



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Submitter:
Sampling Time: 2021/04/20 16:35
Report Time: 2021/04/20 17:20

Operator: admin
Delivery Time: 2021/04/20 16:35
Remarks:

Approver:
Validated Time:

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Handwritten signatures and initials:
A signature, "Kosling", and another signature.

Hematology Analysis Report

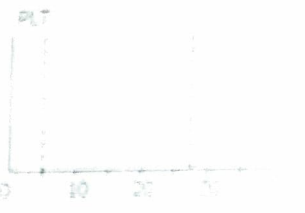
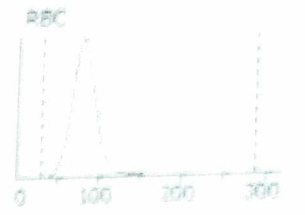
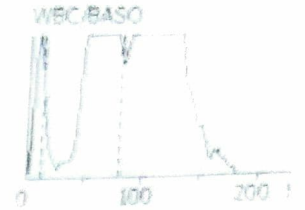
Sample Type
Department
Med Rec No

Sample ID L3
Run Time 2021/04/20 16:36
Diagnosis

Parameter
1 WBC
2 Neu%
3 Lym%
4 Mon%
5 Eos%
6 Bas%
7 Neu#
8 Lym#
9 Mon#
10 Eos#
11 Bas#
12 *ALY#
13 *ALY%
14 *PLC#
15 *PLC%

Parameter	Result	Ref Range	Unit
1 WBC	3.80	3.50-9.50	10 ³ /uL
2 Neu%	55.6	40.0-75.0	%
3 Lym%	32.3	20.0-50.0	%
4 Mon%	6.3	3.0-10.0	%
5 Eos%	3.8	0.4-8.0	%
6 Bas%	2.0	0.0-1.0	%
7 Neu#	2.11	1.80-6.30	10 ³ /uL
8 Lym#	1.23	1.10-3.20	10 ³ /uL
9 Mon#	0.24	0.10-0.60	10 ³ /uL
10 Eos#	0.14	0.02-0.52	10 ³ /uL
11 Bas#	0.08	0.00-0.06	10 ³ /uL
12 *ALY#	***	0.00-0.20	10 ³ /uL
13 *ALY%	***	0.0-2.0	%
14 *PLC#	***	0.00-0.20	10 ³ /uL
15 *PLC%	***	0.0-2.5	%
16 RBC	2.56	3.80-5.80	10 ⁶ /uL
17 HGB	6.0	11.5-17.5	g/dL
18 HCT	21.1	35.0-50.0	%
19 MCV	82.4	82.0-100.0	fL
20 MCH	23.4	27.0-34.0	pg
21 MCHC	28.4	31.6-35.4	g/dL
22 RDW-CV	17.8	11.0-16.0	%
23 RDW-SD	52.4	35.0-56.0	fL
24 PLT	51	125-350	10 ³ /uL
25 MPV	9.6	6.5-12.0	fL
26 PDW	19.1	9.0-17.0	fL
27 PCT	0.049	0.108-0.282	%
28 P-LCR	21.1	11.0-45.0	%
29 P-LCC	11	30-90	10 ⁹ /L

Display



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Submitter
Sampling Time 2021/04/20 16:36
Report Time 2021/04/20 17:45

Operator admin
Delivery Time 2021/04/20 16:36
Remarks

Approver
Validated Time

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LIKHITHA'S

Diagnostics - Speciality Lab

Dymind DH 76

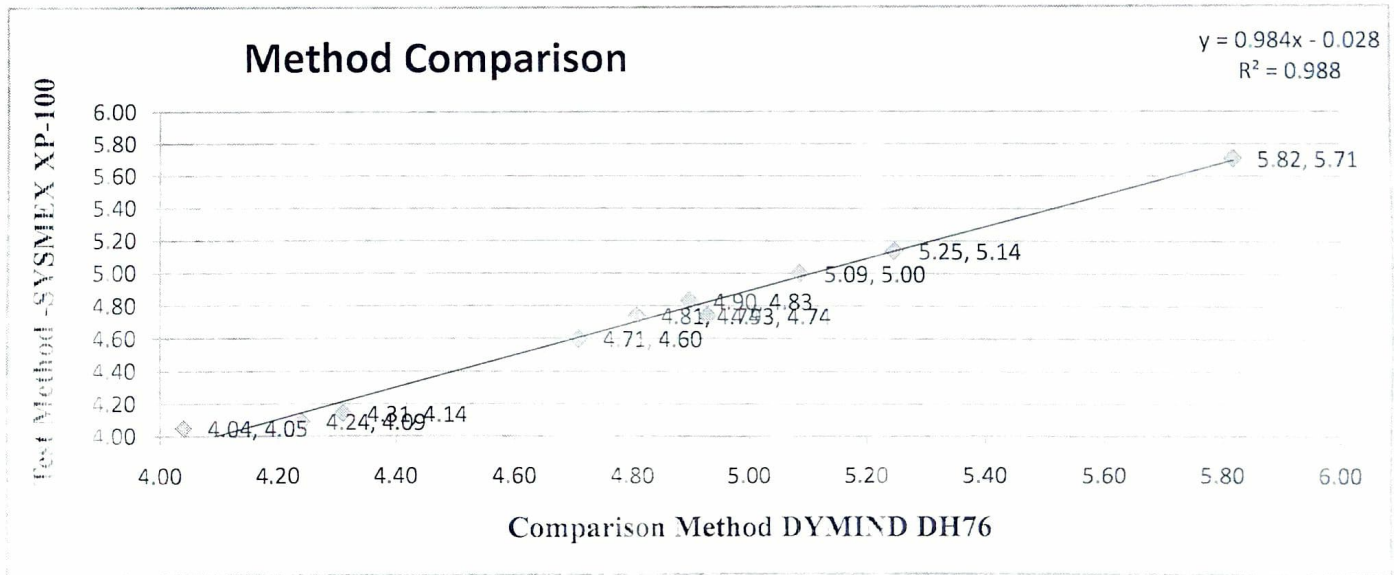
(5 Part Diff Hematology Analyser)

S.N. DM11051809001

**Inter Instrument
Comparison**

Haematology Inter-Instrument Comparison RBC					
Sample Number	Comparison Method (x)	Test Method (y)	Difference(y - x)	Difference %	Acceptable Limits (as per CLIA)
2100049430	4.31	4.14	0.00	0.00	6%
2100049472	5.25	5.14	-0.11	-2.10	6%
2100049475	4.04	4.05	0.01	0.25	6%
2100049481	4.71	4.60	-0.11	-2.34	6%
2100049438	4.81	4.74	-0.07	-1.46	6%
835939400	5.09	5.00	-0.09	-1.77	6%
2100049433	4.93	4.74	-0.19	-3.85	6%
2100049425	4.90	4.83	-0.07	-1.43	6%
2100049493	4.24	4.09	-0.15	-3.54	6%
2100049555	5.82	5.71	-0.11	-1.89	6%

Remarks: Acceptable, since $r < 0.95$.



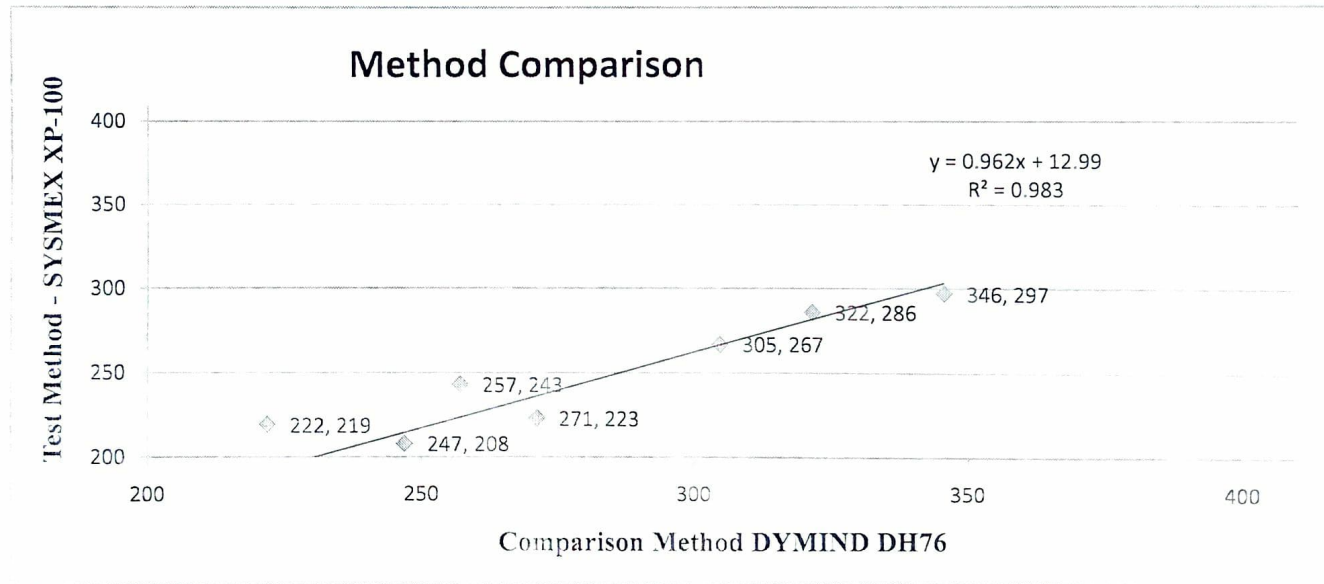
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Haematology Inter-Instrument Comparison PLT

Sample Number	Comparison Method (x)	Test Method (y)	Difference(y - x)	Difference %	Acceptable Limits (as per CLIA)
2100049430	271	223	-48.00	-17.71	25%
2100049472	346	297	-49.00	-14.16	25%
2100049475	229	194	-35.00	-15.28	25%
2100049481	188	151	-37.00	-19.68	25%
2100049438	247	208	-39.00	-15.79	25%
835939400	322	286	-36.00	-11.18	25%
2100049433	305	267	-38.00	-12.46	25%
2100049425	257	243	-14.00	-5.45	25%
2100049493	213	173	-40.00	-18.78	25%
2100049555	222	219	-3.00	-1.35	25%

Remarks: Acceptable, since $r < 0.95$.



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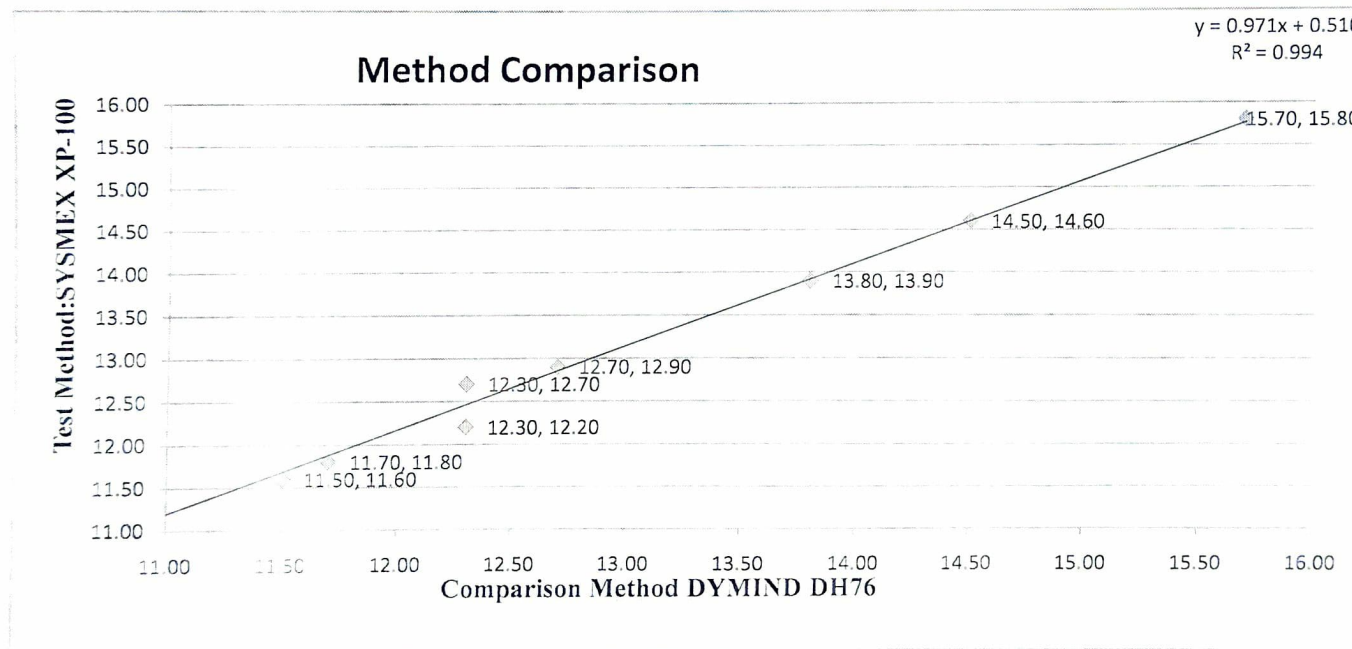
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19430
30 09 44

Haematology Inter-Instrument Comparison HB

Sample Number	Comparison Method (x)	Test Method (y)	Difference(y - x)	Difference %	Acceptable Limits (as per CLIA)
2100049430	11.70	11.80	0.10	0.85	7%
2100049472	14.50	14.60	0.10	0.69	7%
2100049475	10.20	10.60	0.40	3.92	7%
2100049481	12.30	12.20	-0.10	-0.81	7%
2100049438	12.70	12.90	0.20	1.57	7%
835939400	9.20	9.40	0.20	2.17	7%
2100049433	13.80	13.90	0.10	0.72	7%
2100049425	12.30	12.70	0.40	3.25	7%
2100049493	11.50	11.60	0.10	0.87	7%
2100049555	15.70	15.80	0.10	0.64	7%

Remarks: Acceptable, since $r < 0.95$.



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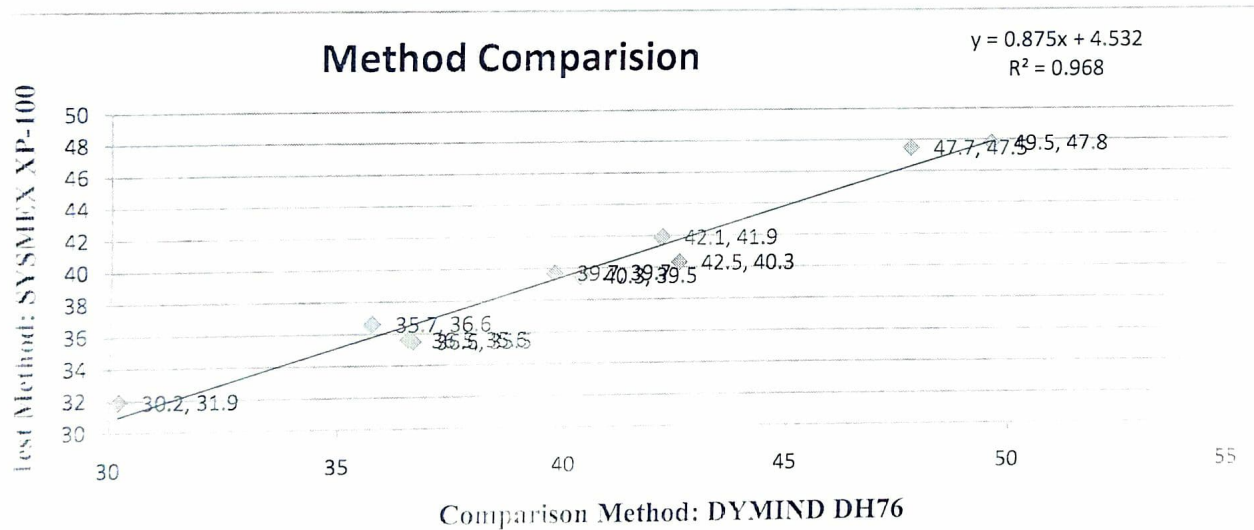
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0049430
03/30 09 44

Haematology Inter-Instrument Comparison HCT

Sample Number	Comparison Method (x)	Test Method (y)	Difference(y - x)	Difference %	Acceptable Limits (as per CLIA)
2100049430	36.6	35.5	-1.10	-3.01	6%
2100049472	47.7	47.5	-0.20	-0.42	6%
2100049475	35.7	36.6	0.90	2.52	6%
2100049481	42.1	41.9	-0.20	-0.48	6%
2100049438	40.3	39.5	-0.80	-1.99	6%
835939400	30.2	31.9	1.70	5.63	6%
2100049433	42.5	40.3	-2.20	-5.18	6%
2100049425	39.7	39.7	0.00	0.00	6%
2100049493	36.5	35.6	-0.90	-2.47	6%
2100049555	49.5	47.8	-1.70	-3.43	6%

Remarks: Acceptable, since $r < 0.95$.



[Signature]

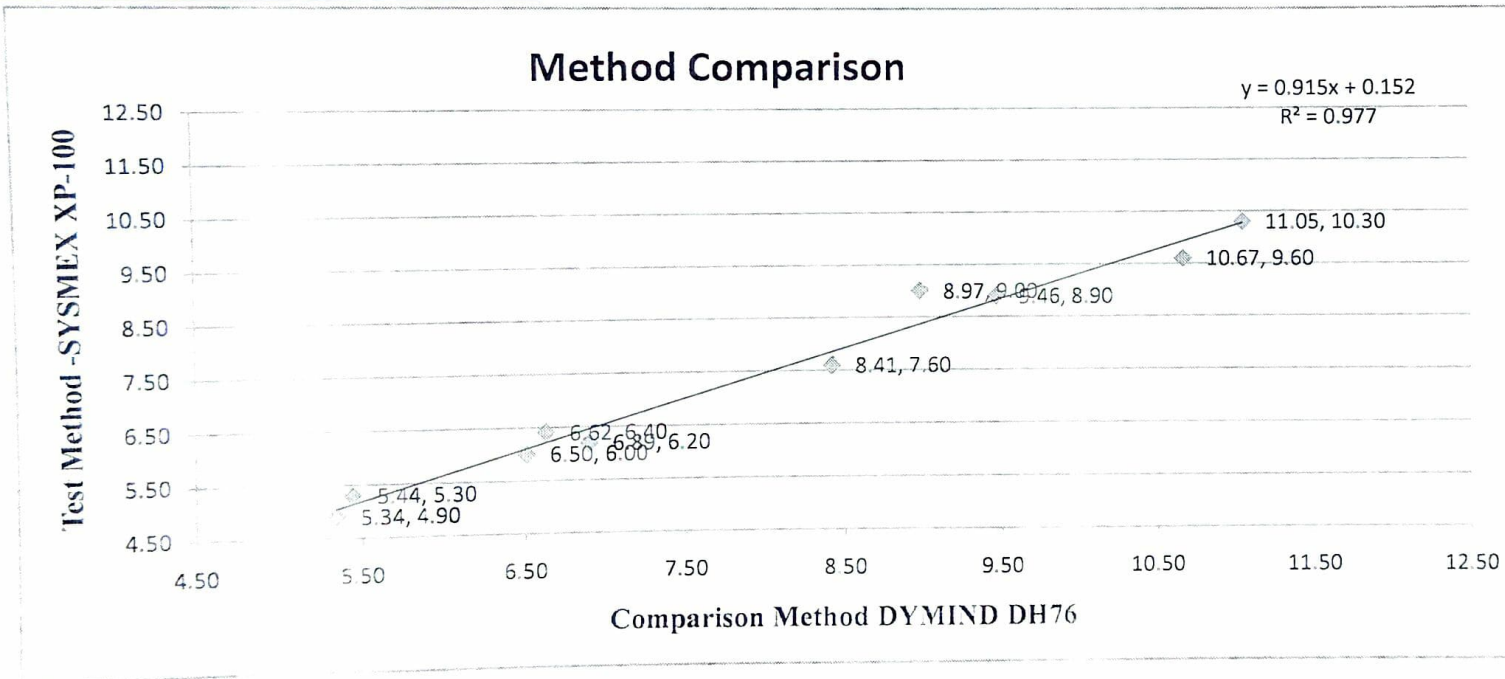
[Signature]

3430
20 09 44

Haematology Inter-Instrument Comparison WBC

Sample Number	Comparison Method (x)	Test Method (y)	Difference(y - x)	Difference %	Acceptable Limits (as per CLIA)
2100049430	9.46	8.90	-0.56	-5.92	15%
2100049472	11.05	10.30	-0.75	-6.79	15%
2100049475	6.62	6.40	-0.22	-3.32	15%
2100049481	10.67	9.60	-1.07	-10.03	15%
2100049438	8.41	7.60	-0.81	-9.63	15%
835939400	5.44	5.30	-0.14	-2.57	15%
2100049433	6.89	6.20	-0.69	-10.01	15%
2100049425	6.50	6.00	-0.50	-7.69	15%
2100049493	5.34	4.90	-0.44	-8.24	15%
2100049555	8.97	9.00	0.03	0.33	15%

Remarks: Acceptable, since $r < 0.95$.



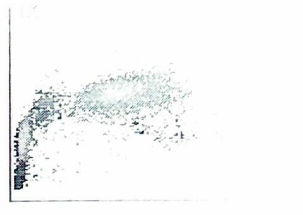
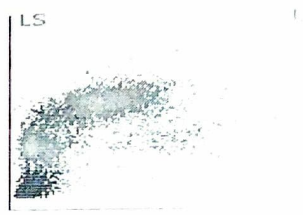
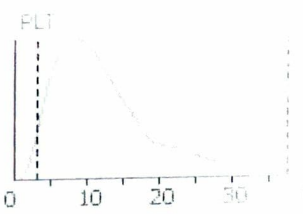
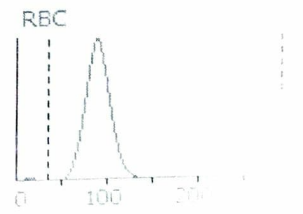
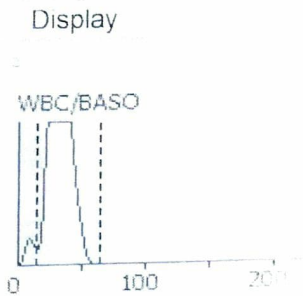
Hematology Analysis Report

Operator:
 ID: 2100049477
 Date: 2021/03/30 09:49
 Time: 15:20
 Mode: WB

Sample Type:
 Department:
 Med Rec. No.:

Sample ID: 2100049477
 Run Time: 2021/03/30 09:49
 Diagnosis:

	Result	Ref. Range	Unit
WBC	10.3 $\times 10^9/uL$		
RBC	5.14 $\times 10^6/uL$		
HGB	14.6 g/dL		
HCT	47.5 %	40.0-75.0	%
MCV	92.4 fL	20.0-50.0	%
MCH	28.4 pg	3.0-10.0	%
MCHC	30.7 g/dL	0.4-8.0	%
PLT	297 $\times 10^3/uL$	0.0-1.0	%
LY	32.2 %	0.3	0.0-1.0
MX	7.7 %	6.55	1.80-6.30
NE	60.1 %	3.70	1.10-3.20
LY#	3.3 $\times 10^9/uL$	0.54	0.10-0.60
MX#	0.8 $\times 10^9/uL$	0.23	0.02-0.52
NEUT#	6.2 $\times 10^9/uL$	0.03	0.00-0.06
RDW-SD	48.6 fL	0.09	0.00-0.20
RDW-CV	13.2 %	0.8	0.0-2.0
PDW	13.1 fL	0.00	0.00-0.20
MPV	10.8 fL	0.0	0.0-2.5
P-LCR	29.6 %	5.25	3.80-5.80
PCT	0.32 %	14.5	11.5-17.5
P-earl/PLI		47.7	35.0-50.0
P-earl/PLI		90.9	82.0-100.0
P-earl/PLI		27.7	27.0-34.0
P-earl/PLI		30.4	31.6-35.4
P-earl/PLI		14.8	11.0-16.0
P-earl/PLI		48.1	35.0-56.0
P-earl/PLI		346	125-350
P-earl/PLI		10.1	6.5-12.0
P-earl/PLI		11.1	9.0-17.0
P-earl/PLI		0.351	0.108-0.282
P-earl/PLI		26.2	11.0-45.0
P-earl/PLI		91	30-90



[Handwritten Signature]

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Submitter:
 Sampling Time: 2021/03/30 09:49
 Report Time: 2021/03/30 16:11
 Operator: admin
 Delivery Time: 2021/03/30 09:49
 Remarks:
 Approver:
 Validated Time:

*The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.

[Handwritten Signature]

Operator

Hematology Analysis Report

ID: 2100049475
Date: 30/03/2021
Time: 16:22
Mode: WB

Sample Type:
Department:
Med Rec. No.:

Sample ID: 2100049475
Run Time: 2021/03/30 09:50
Diagnosis:

WBC 6.4 $\times 10^9$ /uL
RBC 4.05 $\times 10^{12}$ /uL
HGB 10.6 g/dL
HCT 36.6 %
MCV 90.4 fL
MCH 26.2 pg
MCHC 29.0 g/dL
PLT 194 $\times 10^9$ /uL

LYM% 51.0 %
MXD% 12.0 %
NEUT% 12.0 %
LYM# 3.3 $\times 10^9$ /uL
MXD# 0.5 $\times 10^9$ /uL
NEUT# 0.5 $\times 10^9$ /uL

RDW-SD 49.6 fL
RDW-CV 14.3 %
PDW 15.9 fL
MPV 11.5 fL
P-LCR 38.5 %
PCT 0.22 %

ResearchW 6.359 $\times 10^9$ /uL
ResearchS 3.284 $\times 10^9$ /uL
ResearchM 11.5 $\times 10^9$ /uL
ResearchL 4.04 $\times 10^6$ /uL

17 HGB

18 HCT

19 MCV

20 MCH

21 MCHC

22 RDW-CV

23 RDW-SD

24 PLT

25 MPV

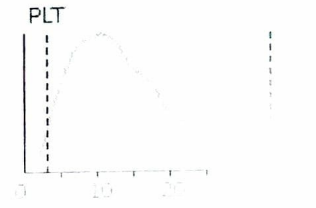
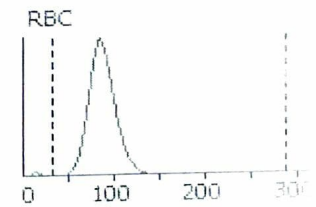
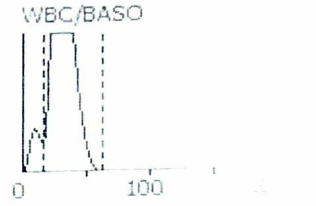
26 PDW

27 PCT

28 P-LCR

29 P-LCC

Result	Ref. Range	Unit	Display
6.62	3.50-9.50	10^3/uL	
70.3	40.0-75.0	%	WBC/BASO
22.3	20.0-50.0	%	
1.7 ↓	3.0-10.0	%	
5.3	0.4-8.0	%	
0.4	0.0-1.0	%	
4.65	1.80-6.30	10^3 /uL	RBC
1.48	1.10-3.20	10^3 /uL	
0.11	0.10-0.60	10^3 /uL	
0.35	0.02-0.52	10^3 /uL	
0.03	0.00-0.06	10^3 /uL	
0.01	0.00-0.20	10^3 /uL	
0.1	0.0-2.0	%	PLT
0.76 ↑	0.00-0.20	10^3 /uL	
11.5 ↑	0.0-2.5	%	
4.04	3.80-5.80	10^6/uL	
10.2 ↓	11.5-17.5	g/dL	
35.7	35.0-50.0	%	LS
88.4	82.0-100.0	fL	
25.2 ↓	27.0-34.0	pg	
28.5 ↓	31.6-35.4	g/dL	
16.3 ↑	11.0-16.0	%	
51.4	35.0-56.0	fL	LS
229	125-350	10^3/uL	
10.6	6.5-12.0	fL	
13.7	9.0-17.0	fL	
0.244	0.108-0.282	%	
32.2	11.0-45.0	%	
74	30-90	10^9 /L	HS



*** means "Research use only, not for diagnostic use".

Submitter:
Sampling Time: 2021/03/30 09:50
Report Time: 2021/03/30 16:11

Operator: admin
Delivery Time: 2021/03/30 09:50
Remarks:

Approver:
Validated Time:

The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.

Operator

ID: 2100049481
Date: 30/03/2021
Time: 15:27
Mode: MB

Hematology Analysis Report

Sample Type:
Department:
Med Rec. No.:

Sample ID: 2100049481
Run Time: 2021/03/30 09:48
Diagnosis:

WBC 9.6 $\times 10^9$ /uL
RBC 4.60 $\times 10^5$ /uL
HGB 12.2 g/dL
HCT 41.9 %
MCV 91.1 fL
MCH 26.5 pg
MCHC 29.1 g/dL
PLT 151 $\times 10^9$ /uL

LYM% 17.8 %
MXD% 4.4 %
NEUT% 77.8 %
LYM# 1.7 $\times 10^3$ /uL
MXD# 0.4 $\times 10^3$ /uL
NEUT# 7.5 $\times 10^3$ /uL

RDW-SD 54.8 fL
RDW-CV 15.4 %
PDW 15.6 fL
MPV 11.1 fL
P-LCR 35.8 %
PCT 0.17 %

13 *ALY%

14 *LIC#

15 *LIC%

16 RBC

17 HGB

18 HCT

19 MCV

20 MCH

21 MCHC

22 RDW-CV

23 RDW-SD

24 PLT

25 MPV

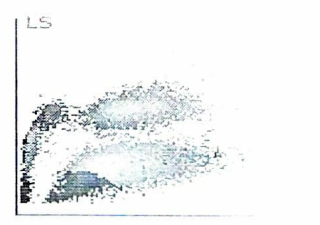
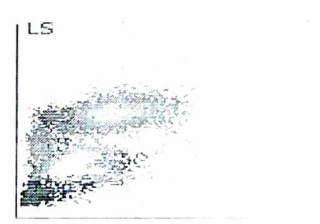
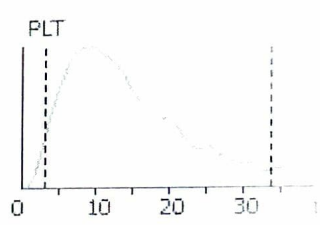
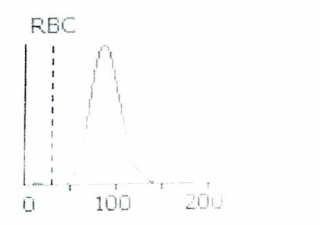
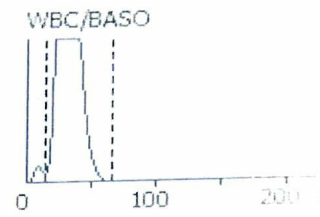
26 PDW

27 PCT

28 P-LCR

29 P-LCC

Result	Ref. Range	Unit	Display
10.67 ↑	3.50-9.50	10^3 /uL	
88.4 ↑	40.0-75.0	%	WBC/BASO
5.8 ↓	20.0-50.0	%	
2.2 ↓	3.0-10.0	%	
3.3	0.4-8.0	%	
0.3	0.0-1.0	%	
9.44 ↑	1.80-6.30	10^3 /uL	
0.62 ↓	1.10-3.20	10^3 /uL	RBC
0.23	0.10-0.60	10^3 /uL	
0.35	0.02-0.52	10^3 /uL	
0.03	0.00-0.06	10^3 /uL	
0.01	0.00-0.20	10^3 /uL	



*** means "Research use only, not for diagnostic use".

Submitter:
Sampling Time: 2021/03/30 09:48
Report Time: 2021/03/30 16:11

Operator: admin
Delivery Time: 2021/03/30 09:48
Remarks:

Approver:
Validated Time:

*The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.

ID: 2100049438
 Date: 30/03/2021
 Time: 15:18
 Mode: WB

Hematology Analysis Report

Sample Type:
 Department:
 Med Rec. No.:

Sample ID: 2100049438
 Run Time: 2021/03/30 09:47
 Diagnosis:

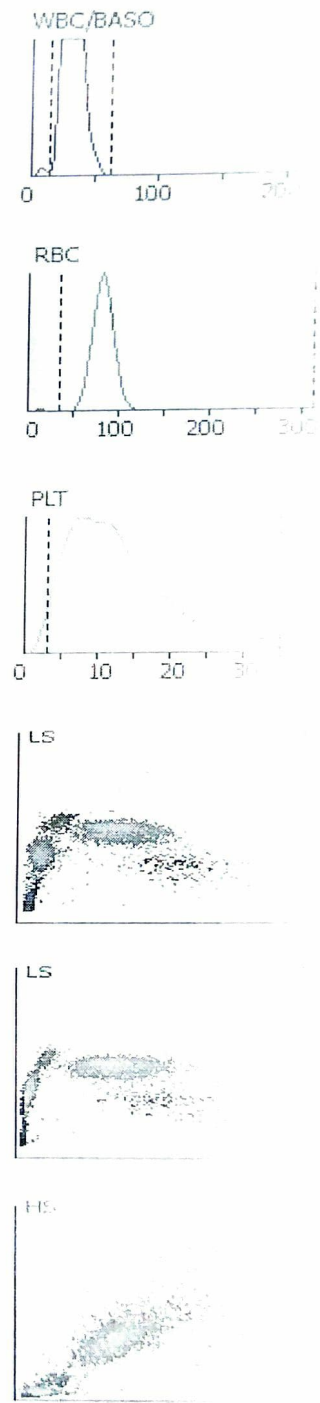
WBC $7.6 \times 10^9 / \text{uL}$
 RBC $4.74 \times 10^6 / \text{uL}$
 HGB 12.9 g/dL
 HCT 39.5 %
 MCV 83.3 fL
 MCH 27.2 pg
 MCHC 32.7 g/dL
 PLT $208 \times 10^3 / \text{uL}$

LYM% 30.7 %
 MXD% 10.4 %
 NEUT% 58.9 %
 LYM# $2.3 \times 10^9 / \text{uL}$
 MXD# $0.8 \times 10^9 / \text{uL}$
 NEUT# $4.5 \times 10^9 / \text{uL}$

RDW-SD 44.9 fL
 RDW-CV 13.7 %
 PDW 14.3 fL
 MPV 10.8 fL
 P-LCR 31.4 %
 PCT 0.22 %

Research PLT $7.612 \times 10^3 / \text{uL}$
 Research RBC $2.572 \times 10^6 / \text{uL}$
 Research HGB $2.790 \times 10^2 \text{ g/dL}$
 Research HCT 4.489 %

Result	Ref. Range	Unit	Display
8.41	3.50-9.50	$10^3 / \text{uL}$	
61.2	40.0-75.0	%	WBC/BASO
30.5	20.0-50.0	%	
4.0	3.0-10.0	%	
4.1	0.4-8.0	%	
0.2	0.0-1.0	%	
5.14	1.80-6.30	$10^3 / \text{uL}$	RBC
2.57	1.10-3.20	$10^3 / \text{uL}$	
0.34	0.10-0.60	$10^3 / \text{uL}$	
0.34	0.02-0.52	$10^3 / \text{uL}$	
0.02	0.00-0.06	$10^3 / \text{uL}$	
0.04	0.00-0.20	$10^3 / \text{uL}$	
0.5	0.0-2.0	%	PLT
0.00	0.00-0.20	$10^3 / \text{uL}$	
0.0	0.0-2.5	%	
4.81	3.80-5.80	$10^6 / \text{uL}$	
12.7	11.5-17.5	g/dL	
40.3	35.0-50.0	%	LS
83.8	82.0-100.0	fL	
26.3	27.0-34.0	pg	
31.4	31.6-35.4	g/dL	
14.0	11.0-16.0	%	LS
41.6	35.0-56.0	fL	
247	125-350	$10^3 / \text{uL}$	
10.4	6.5-12.0	fL	
13.2	9.0-17.0	fL	
0.258	0.108-0.282	%	
29.8	11.0-45.0	%	
74	30-90	$10^9 / \text{L}$	HS



- 18 HCT
- 19 MCV
- 20 MCH
- 21 MCHC
- 22 RDW-CV
- 23 RDW-SD
- 24 PLT
- 25 MPV
- 26 PDW
- 27 PCT
- 28 P-LCR
- 29 P-LCC

**** means "Research use only, not for diagnostic use"

Submitter:
 Sampling Time: 2021/03/30 09:47
 Report Time: 2021/03/30 16:11

Operator: admin
 Delivery Time: 2021/03/30 09:47
 Remarks:

Approver:
 Validated Time:

*The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.

Operator

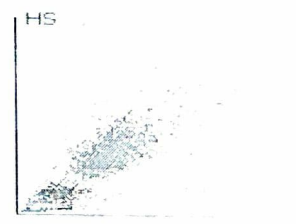
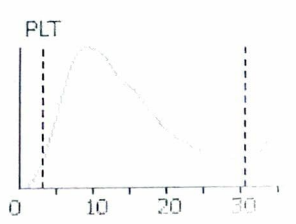
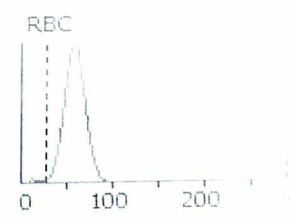
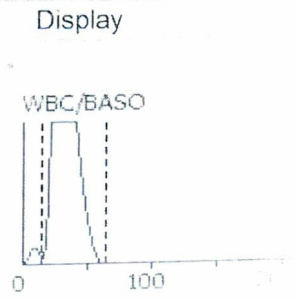
Hematology Analysis Report

ID: 000835939400
Date 30 03/2021
Time 15:31
Mode WB

Sample Type:
Department:
Med Rec. No.:

Sample ID 0008359394
Run Time: 2021/03/30 10:44
Diagnosis:

	Result	Ref. Range	Unit	Display
WBC	5.3 $\times 10^3/\mu\text{L}$	5.44	3.50-9.50	$10^3/\mu\text{L}$
RBC	5.00 $\times 10^6/\mu\text{L}$	49.9	40.0-75.0	%
HGB	9.4 g/dL	39.6	20.0-50.0	%
HCT	31.9 %	8.4	3.0-10.0	%
MCV	63.8 fL	1.9	0.4-8.0	%
MCH	18.8 pg	0.2	0.0-1.0	%
MCHC	29.5 g/dL	2.72	1.80-6.30	$10^3/\mu\text{L}$
PLT	286 $\times 10^3/\mu\text{L}$	2.15	1.10-3.20	$10^3/\mu\text{L}$
LYM%	35.9 %	0.46	0.10-0.60	$10^3/\mu\text{L}$
MXD%	14.6 %	0.10	0.02-0.52	$10^3/\mu\text{L}$
NEUT%	49.5 %	0.01	0.00-0.06	$10^3/\mu\text{L}$
LYM#	1.9 $\times 10^3/\mu\text{L}$	0.03	0.00-0.20	$10^3/\mu\text{L}$
MXD#	0.8 $\times 10^3/\mu\text{L}$	0.5	0.0-2.0	%
NEUT#	2.6 $\times 10^3/\mu\text{L}$	0.00	0.00-0.20	$10^3/\mu\text{L}$
RDW-SD	41.9 fL	0.00	0.00-0.20	$10^3/\mu\text{L}$
RDW-CV	17.9 %	0.1	0.0-2.5	%
PDW	13.1 fL	5.09	3.80-5.80	$10^6/\mu\text{L}$
MPV	10.3 fL	9.2	11.5-17.5	g/dL
P-LCR	29.1 %	30.2	35.0-50.0	%
PCT	0.29 %	59.3	82.0-100.0	fL
ResearchH	5.290 $\times 10^3/\mu\text{L}$	18.2	27.0-34.0	pg
ResearchS	1.303 $\times 10^3/\mu\text{L}$	30.7	31.6-35.4	g/dL
ResearchM	0.774 $\times 10^3/\mu\text{L}$	18.9	11.0-16.0	%
ResearchL	2.613 $\times 10^3/\mu\text{L}$	40.0	35.0-56.0	fL



18 HCT	30.2	↓	35.0-50.0	%
19 MCV	59.3	↓	82.0-100.0	fL
20 MCH	18.2	↓	27.0-34.0	pg
21 MCHC	30.7	↓	31.6-35.4	g/dL
22 RDW-CV	18.9	↑	11.0-16.0	%
23 RDW-SD	40.0		35.0-56.0	fL
24 PLT	322		125-350	$10^3/\mu\text{L}$
25 MPV	10.8		6.5-12.0	fL
26 PDW	12.8		9.0-17.0	fL
27 PCT	0.348	↑	0.108-0.282	%
28 P-LCR	33.4		11.0-45.0	%
29 P-LCC	108	↑	30-90	$10^9/\text{L}$

*** means "Research use only, not for diagnostic use"

Submitter:
Sampling Time: 2021/03/30 10:44
Report Time: 2021/03/30 16:12

Operator: admin
Delivery Time: 2021/03/30 10:44
Remarks:

Approver:
Validated Time

*The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.

Operator

Hematology Analysis Report

ID: 2100049433
Date: 30/03/21
Time: 16:17
Mode: WB

Sample Type:
Department:
Med Rec. No.:

Sample ID: 2100049433
Run Time: 2021/03/30 09:45
Diagnosis:

WBC 6.2 $\times 10^9$ /uL
RBC 4.74 $\times 10^6$ /uL
HGB 13.9 g/dL
HCT 40.3 %
MCV 85.0 fL
MCH 29.3 pg
MCHC 34.5 g/dL
PLT 267 $\times 10^3$ /uL

LYM% 33.4 %
MXD% 13.1 %
NEUT% 53.5 %
LYM# 2.1 $\times 10^3$ /uL
MXD# 0.8 $\times 10^3$ /uL
NEUT# 3.3 $\times 10^3$ /uL

RDW-SD 41.5 fL
RDW-CV 12.7 %
PDW 11.3 fL
MPV 10.1 fL
P-LCR 24.7 %
PCT 0.27 %

ResearchH 6.742 $\times 10^2$ /uL
ResearchS 0.071 $\times 10^3$ /uL
ResearchM 0.010 $\times 10^3$ /uL
ResearchL 3.353 $\times 10^3$ /uL

17 HGB

18 HCT

19 MCV

20 MCH

21 MCHC

22 RDW-CV

23 RDW-SD

24 PLT

25 MPV

26 PDW

27 PCT

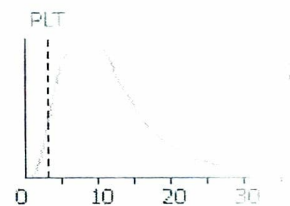
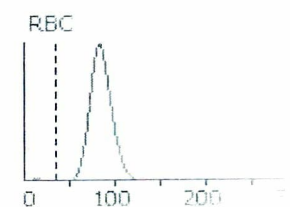
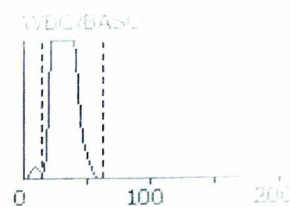
28 P-LCR

29 P-LCC

Result	Ref. Range	Unit
6.89	3.50-9.50	10^3 /uL
52.6	40.0-75.0	%
31.8	20.0-50.0	%
7.5	3.0-10.0	%
7.9	0.4-8.0	%
0.2	0.0-1.0	%
3.63	1.80-6.30	10^3 /uL
2.19	1.10-3.20	10^3 /uL
0.52	0.10-0.60	10^3 /uL
0.54	0.02-0.52	10^3 /uL
0.01	0.00-0.06	10^3 /uL
0.03	0.00-0.20	10^3 /uL
0.4	0.0-2.0	%
0.00	0.00-0.20	10^3 /uL
0.0	0.0-2.5	%

4.93	3.80-5.80	10^6 /uL
13.8	11.5-17.5	g/dL
42.5	35.0-50.0	%
86.2	82.0-100.0	fL
27.9	27.0-34.0	pg
32.4	31.6-35.4	g/dL
13.7	11.0-16.0	%
41.9	35.0-56.0	fL
305	125-350	10^3 /uL
9.3	6.5-12.0	fL
10.7	9.0-17.0	fL
0.284	0.108-0.282	%
21.5	11.0-45.0	%
65	30-90	10^9 /L

Display



"" means "Research use only, not for diagnostic use".

Submitter:
Sampling Time: 2021/03/30 09:45
Report Time: 2021/03/30 16:12

Operator: admin
Delivery Time: 2021/03/30 09:45
Remarks:

Approver:
Validated Time:

*The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours

Operator

Hematology Analysis Report

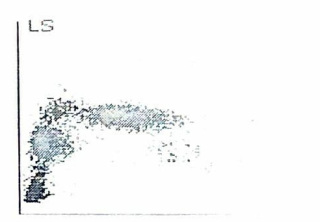
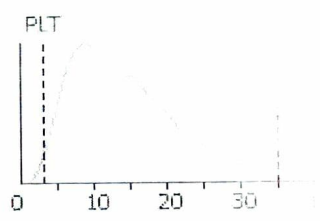
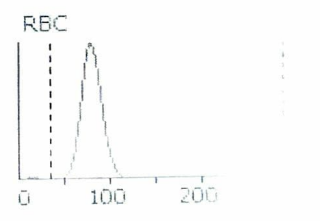
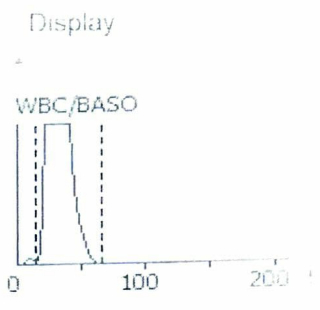
ID: 2100049425
Date: 30/03/2021
Time: 15:14
Mode: L

Sample Type:
Department:
Med Rec. No.:

Sample ID: 2100049425
Run Time: 2021/03/30 09:43
Diagnosis:

WBC: 6.0 $\times 10^9$ /L
 RBC: 4.83 $\times 10^{12}$ /L
 HGB: 12.7 g/dL
 HCT: 39.7 %
 MCV: 82.2 fL
 MCH: 26.3 pg
 MCHC: 32.0 g/dL
 PLT: ADV 243 $\times 10^9$ /L
 LYM%: 39.0 %
 MXD%: 9.0 %
 NEUT%: 52.0 %
 LYM#: 2.3 $\times 10^9$ /L
 MXD#: 0.5 $\times 10^9$ /L
 NEUT#: 3.2 $\times 10^9$ /L
 RDW-SD: 40.2 fL
 RDW-CV: 12.3 %
 PDW: 15.2 fL
 MPV: 11.9 fL
 P-LCR: 38.0 %
 PCT: 0.29 %
 Research#1: 6.030 $\times 10^9$ /L
 Research#2: 2.340 $\times 10^9$ /L
 Research#3: 0.540 $\times 10^9$ /L
 Research#4: 3.150 $\times 10^9$ /L

Result	Ref. Range	Unit
6.50	3.50-9.50	10^3 /uL
51.3	40.0-75.0	%
40.6	20.0-50.0	%
5.9	3.0-10.0	%
2.0	0.4-8.0	%
0.2	0.0-1.0	%
3.34	1.80-6.30	10^3 /uL
2.64	1.10-3.20	10^3 /uL
0.38	0.10-0.60	10^3 /uL
0.13	0.02-0.52	10^3 /uL
0.01	0.00-0.06	10^3 /uL
0.04	0.00-0.20	10^3 /uL
0.6	0.0-2.0	%
0.00	0.00-0.20	10^3 /uL
0.0	0.0-2.5	%
4.90	3.80-5.80	10^6 /uL
12.3	11.5-17.5	g/dL
18 HCT	35.0-50.0	%
19 MCV	82.0-100.0	fL
20 MCH	27.0-34.0	pg
21 MCHC	31.6-35.4	g/dL
22 RDW-CV	11.0-16.0	%
23 RDW-SD	35.0-56.0	fL
24 PLT	125-350	10^3 /uL
25 MPV	6.5-12.0	fL
26 PDW	9.0-17.0	fL
27 PCT	0.108-0.282	%
28 P-LCR	11.0-45.0	%
29 P-LCC	30-90	10^9 /L



**** means "Research use only, not for diagnostic use".

Submitter:
Sampling Time: 2021/03/30 09:43
Report Time: 2021/03/30 16:12

Operator: admin
Delivery Time: 2021/03/30 09:43
Remarks:

Approver:
Validated Time:

The Report is responsible for this sample only. If you have any questions please contact your physician.

Operator

Hematology Analysis Report

ID: 2100049493
Date 30/03/2021
Time 15:28
Mode WB

Sample Type:
Department:
Med Rec. No.:

Sample ID: 2100049493
Run Time: 2021/03/30 16
Diagnosis:

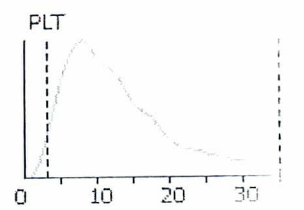
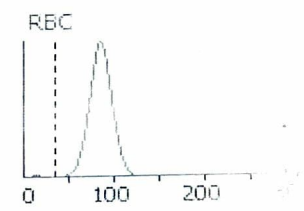
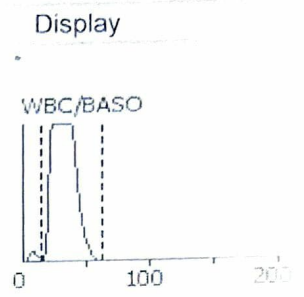
WBC 4.9 $\times 10^9/uL$
RBC 4.09 $\times 10^{12}/uL$
HGB 11.6 g/dL
HCT 35.6 %
MCV 87.0 fL
MCH 28.4 pg
MCHC 32.6 g/dL
PLT 173 $\times 10^9/uL$

LYM% 34.6 %
MXD% + 29.3 %
NEUT% - 36.1 %
LYM# 1.7 $\times 10^9/uL$
MXD# 1.4 $\times 10^9/uL$
NEUT# 1.8 $\times 10^9/uL$

RDW-SD 45.0 fL
RDW-CV 12.9 %
PDW 14.5 fL
MPV 11.4 fL
P-LCR 35.1 %
PCT 0.20 %

ResearchW 4.904 $\times 10^9/uL$
ResearchS 1.939 $\times 10^9/uL$
ResearchM 1.426 $\times 10^9/uL$
ResearchL 1.773 $\times 10^9/uL$

Result	Ref. Range	Unit	Display
5.34	3.50-9.50	$10^3/uL$	-
53.5	40.0-75.0	%	WBC/BASO
33.5	20.0-50.0	%	
7.7	3.0-10.0	%	
5.0	0.4-8.0	%	
0.3	0.0-1.0	%	
2.85	1.80-6.30	$10^3/uL$	
1.79	1.10-3.20	$10^3/uL$	RBC
0.41	0.10-0.60	$10^3/uL$	
0.27	0.02-0.52	$10^3/uL$	
0.02	0.00-0.06	$10^3/uL$	
0.02	0.00-0.20	$10^3/uL$	
0.4	0.0-2.0	%	PLT
0.00	0.00-0.20	$10^3/uL$	
0.0	0.0-2.5	%	
4.24	3.80-5.80	$10^6/uL$	
11.5	11.5-17.5	g/dL	
36.5	35.0-50.0	%	LS
85.9	82.0-100.0	fL	
27.0	27.0-34.0	pg	
31.4	31.6-35.4	g/dL	
14.3	11.0-16.0	%	
44.2	35.0-56.0	fL	LS
213	125-350	$10^3/uL$	
10.2	6.5-12.0	fL	
12.2	9.0-17.0	fL	
0.217	0.108-0.282	%	
27.9	11.0-45.0	%	
59	30-90	$10^9/L$	HS



**** means "Research use only, not for diagnostic use"

Submitter:
Sampling Time: 2021/03/30 10:03
Report Time: 2021/03/30 16:19

Operator: admin
Delivery Time: 2021/03/30 10:03
Remarks:

Approver:
Validated Time:

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Hematology Analysis Report

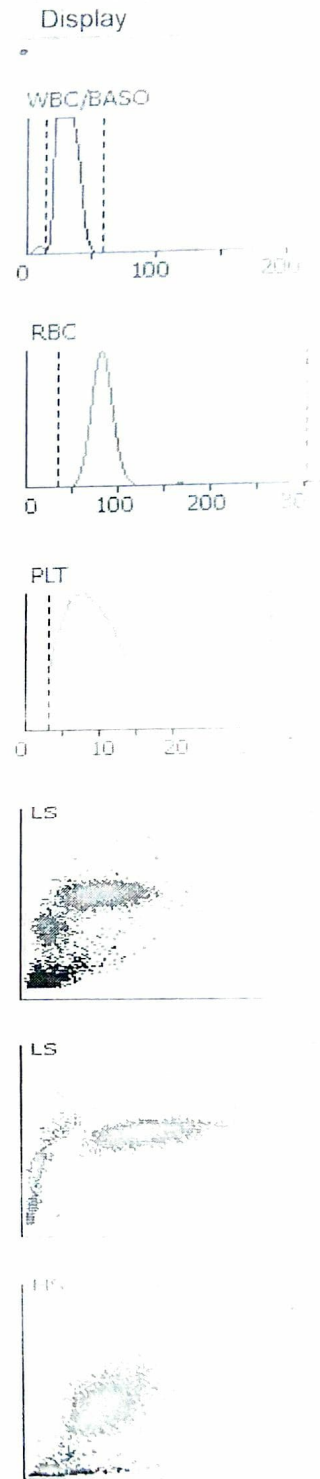
Operator: _____

ID: 2100049555
 Date: 30/03/2021
 Time: 15:29
 Mode: WB

Sample Type:
 Department:
 Med Rec. No.:

Sample ID: 2100049555
 Run Time: 2021/03/30 11:36
 Diagnosis:

	Result	Ref. Range	Unit
WBC	8.97	3.50-9.50	10 ³ /uL
RBC	5.71		10 ⁶ /uL
HGB	15.8	40.0-75.0	%
HCT	47.8		%
MCV	83.7	20.0-50.0	%
MCH	27.7		%
MCHC	33.1	3.0-10.0	%
PLT	219	0.4-8.0	%
LYM%	15.9	0.0-1.0	%
MXD%	4.2		
NEUT%	79.9	1.80-6.30	10 ³ /uL
LYM#	1.4	1.10-3.20	10 ³ /uL
MXD#	0.4	0.10-0.60	10 ³ /uL
NEUT#	7.2	0.10-0.60	10 ³ /uL
RDW-SD	43.7	0.02-0.52	10 ³ /uL
RDW-CV	13.3	0.00-0.06	10 ³ /uL
PDW	13.5	0.00-0.20	10 ³ /uL
MPV	10.7		10 ³ /uL
P-LCR	30.8	0.0-2.0	%
PCT	0.23	0.00-0.20	10 ³ /uL
Research Hb	8.931	0.0-2.5	%
Research HbS	1.431	0.0-2.5	%
Research HbF	0.375	3.80-5.80	10 ⁶ /uL
Research HbL	7.192	11.5-17.5	g/dL
19 MCV	85.0	35.0-50.0	%
20 MCH	27.0	27.0-34.0	g/dL
21 MCHC	31.7	31.6-35.4	%
22 RDW-CV	13.8	11.0-16.0	fL
23 RDW-SD	41.5	35.0-56.0	pg
24 PLT	222	125-350	10 ³ /uL
25 MPV	9.7	6.5-12.0	fL
26 PDW	11.3	9.0-17.0	fL
27 PCT	0.215	0.108-0.282	%
28 P-LCR	25.7	11.0-45.0	%
29 P-LCC	57	30-90	10 ⁹ /L



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Submitter:
 Sampling Time: 2021/03/30 11:36
 Report Time: 2021/03/30 16:19

Operator: admin
 Delivery Time: 2021/03/30 11:36
 Remarks:

Approver:
 Validated Time:

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Operator

Hematology Analysis Report

ID: 2100049475
Date: 30/03/2021
Time: 15:25
Mode: WB

Sample Type:
Department:
Med Rec. No.:

Sample ID: 2100049475
Run Time: 2021/03/30 09:50
Diagnosis:

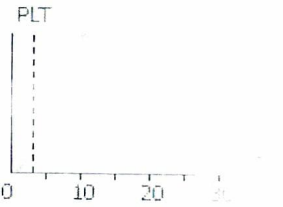
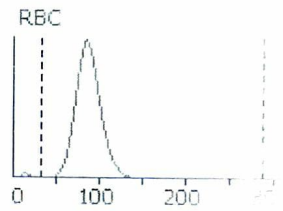
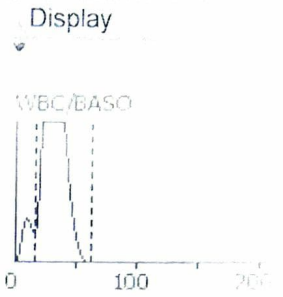
WBC 6.4 $10^9/L$
RBC 4.01 $10^{12}/L$
HGB 10.6 g/dL
HCT 36.1 %
MCV 90.0 fL
MCH 26.4 pg
MCHC 29.4 g/dL
PLT 186 $10^9/L$

LYM% 45.3 %
MXD% 8.3 %
NEUT% 46.4 %
LYM# 2.9 $10^9/L$
MXD# 0.5 $10^9/L$
NEUT# 3.0 $10^9/L$

RDW-SD 50.9 fL
RDW-CV 14.5 %
PDW 15.9 fL
MPV 11.4 fL
P-LCR 37.4 %
PCT 0.21 %

ResearchHt 6.381 $10^9/L$
ResearchS 0.999 $10^{12}/L$
ResearchM 0.731 $10^{12}/L$
ResearchC 2.351 $10^9/L$

Result	Ref. Range	Unit
6.62	3.50-9.50	$10^3/uL$
70.3	40.0-75.0	%
22.3	20.0-50.0	%
1.7 ↓	3.0-10.0	%
5.3	0.4-8.0	%
0.4	0.0-1.0	%
4.65	1.80-6.30	$10^3/uL$
1.48	1.10-3.20	$10^3/uL$
0.11	0.10-0.60	$10^3/uL$
0.35	0.02-0.52	$10^3/uL$
0.03	0.00-0.06	$10^3/uL$
0.01	0.00-0.20	$10^3/uL$
0.1	0.0-2.0	%
0.76 ↑	0.00-0.20	$10^3/uL$
11.5 ↑	0.0-2.5	%
4.04	3.80-5.80	$10^6/uL$
10.2 ↓	11.5-17.5	g/dL
35.7	35.0-50.0	%
88.4	82.0-100.0	fL
25.2 ↓	27.0-34.0	pg
28.5 ↓	31.6-35.4	g/dL
16.3 ↑	11.0-16.0	%
51.4	35.0-56.0	fL
229	125-350	$10^3/uL$
10.6	6.5-12.0	fL
13.7	9.0-17.0	fL
0.244	0.108-0.282	%
32.2	11.0-45.0	%
74	30-90	$10^9/L$



- 19 MCV
- 20 MCH
- 21 MCHC
- 22 RDW-CV
- 23 RDW-SD
- 24 PLT
- 25 MPV
- 26 PDW
- 27 PCT
- 28 P-LCR
- 29 P-LCC

**** means "Research use only, not for diagnostic use".

Submitter:
Sampling Time: 2021/03/30 09:50
Report Time: 2021/03/30 16:19

Operator: admin
Delivery Time: 2021/03/30 09:50
Remarks:

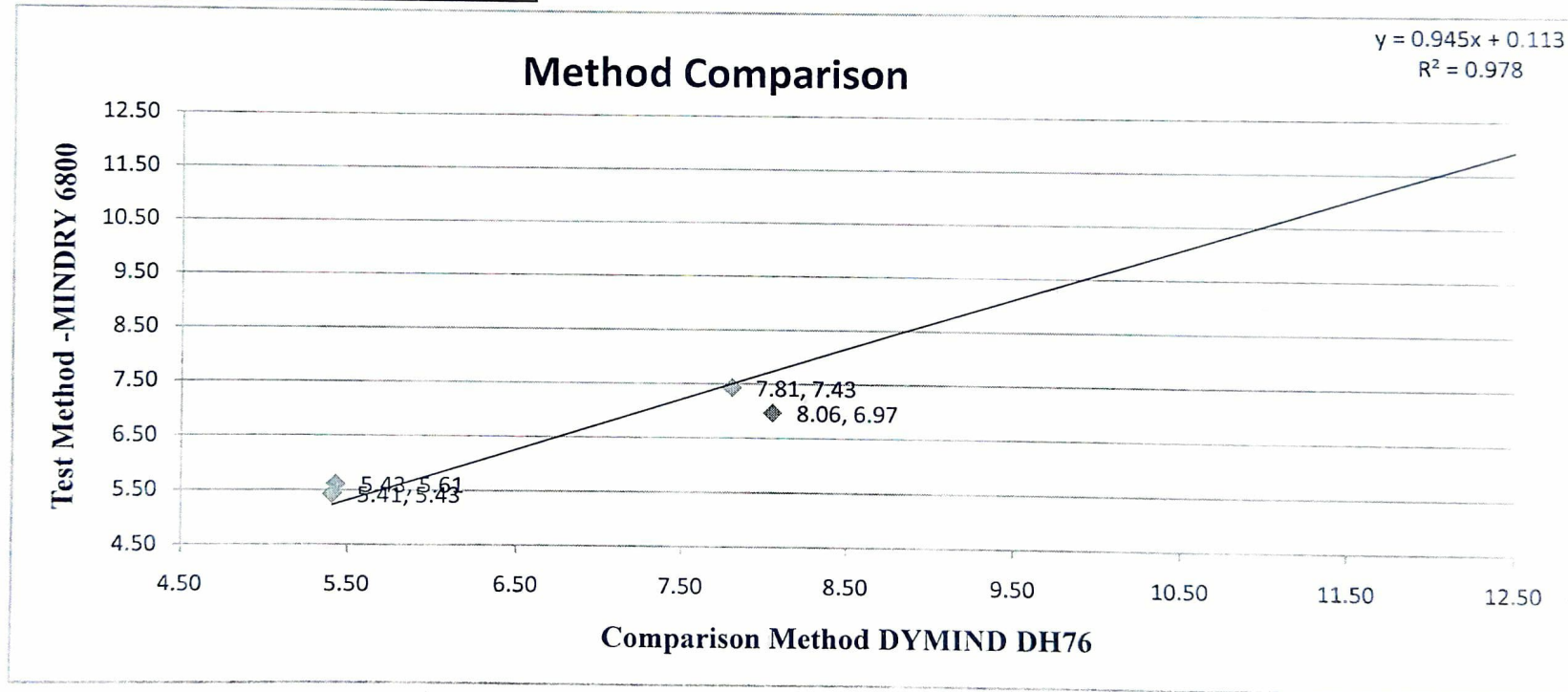
Approver:
Validated Time:

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Comparison of DH76 → Accuracy check with
 Ref lab instrument - Mindry
 GOOD.

Haematology Inter-Instrument Comparison WBC					
Sample Number	Comparison Method (x)	Test Method (y)	Difference(y - x)	Difference %	Acceptable Limits (as per CLIA)
2100009542	7.81	7.43	-0.38	-4.87	15%
2100009592	13.40	13.06	-0.34	-2.54	15%
2100009590	5.43	5.61	0.18	3.31	15%
2100009572	5.41	5.43	0.02	0.37	15%
2100009573	8.06	6.97	-1.09	-13.52	15%

Remarks: Acceptable, since r < 0.95.

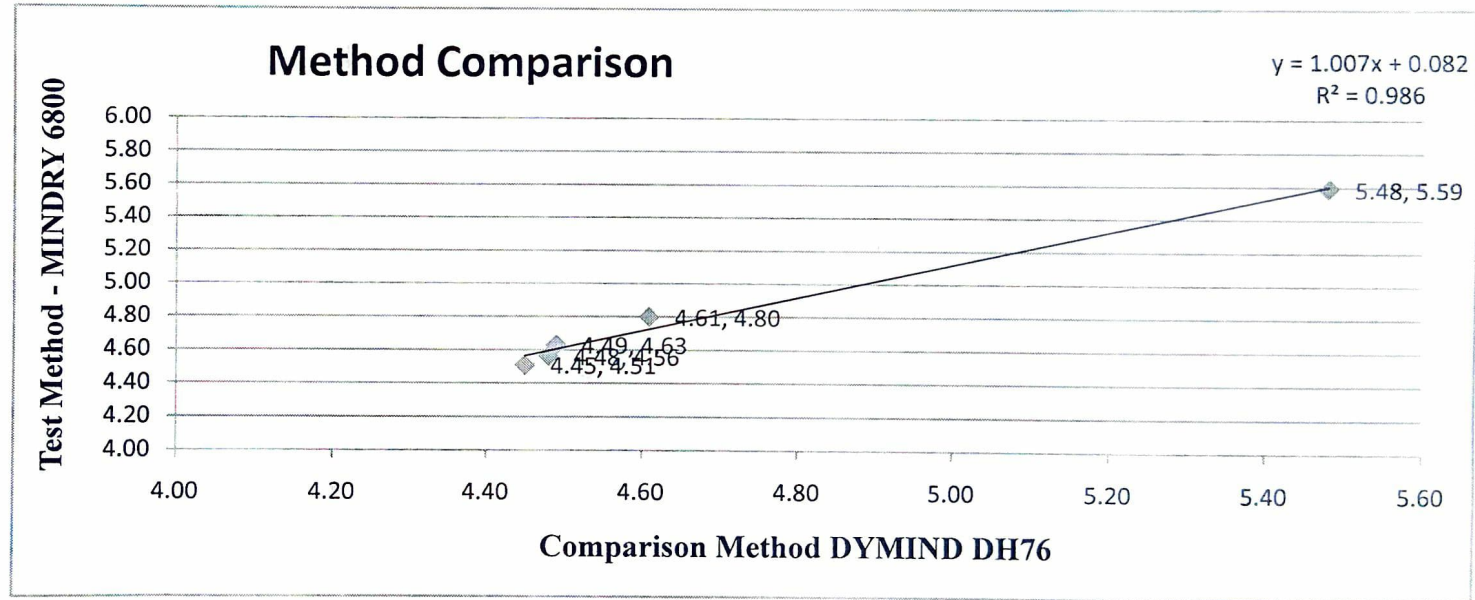


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Haematology Inter-Instrument Comparison RBC					
Sample Number	Comparison Method (x)	Test Method (y)	Difference(y - x)	Difference %	Acceptable Limits (as per CLIA)
2100009542	4.49	4.63	0.14	3.12	6%
2100009592	4.45	4.51	0.06	1.35	6%
2100009590	5.48	5.59	0.11	2.01	6%
2100009572	4.48	4.56	0.08	1.79	6%
2100009573	4.61	4.80	0.19	4.12	6%

Remarks: Acceptable, since $r > 0.95$.

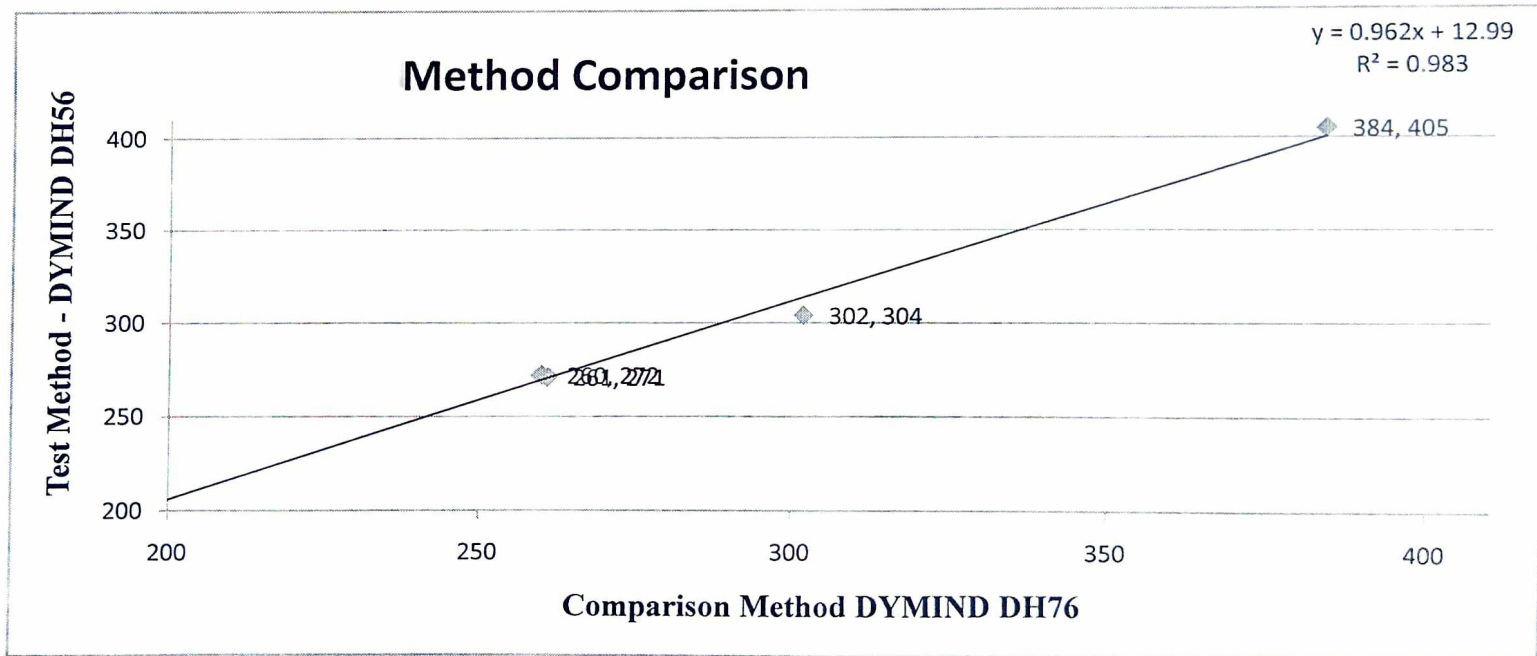


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Haematology Inter-Instrument Comparison PLT					
Sample Number	Comparison Method (x)	Test Method (y)	Difference(y - x)	Difference %	Acceptable Limits (as per CLIA)
2100009542	302	304	2.00	0.66	25%
2100009592	260	272	12.00	4.62	25%
2100009590	178	185	7.00	3.93	25%
2100009572	261	271	10.00	3.83	25%
2100009573	384	405	21.00	5.47	25%

Remarks: Acceptable, since $r > 0.95$.

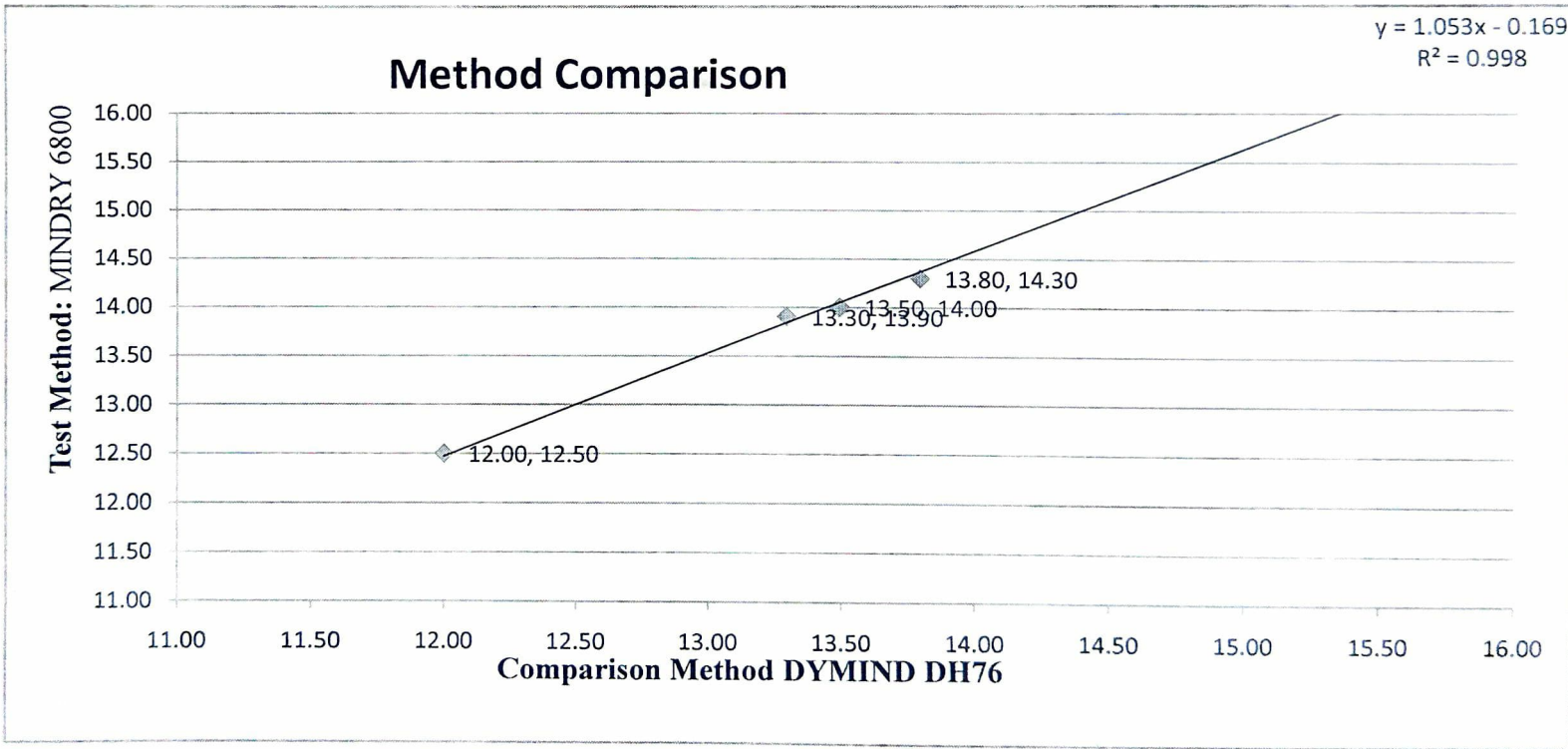


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Haematology Inter-Instrument Comparison HB					
Sample Number	Comparison Method (x)	Test Method (y)	Difference(y - x)	Difference %	Acceptable Limits (as per CLIA)
2100009542	13.30	13.90	0.60	4.51	7%
2100009592	13.50	14.00	0.50	3.70	7%
2100009590	15.60	16.30	0.70	4.49	7%
2100009572	13.80	14.30	0.50	3.62	7%
2100009573	12.00	12.50	0.50	4.17	7%

Remarks: Acceptable, since r > 0.95.

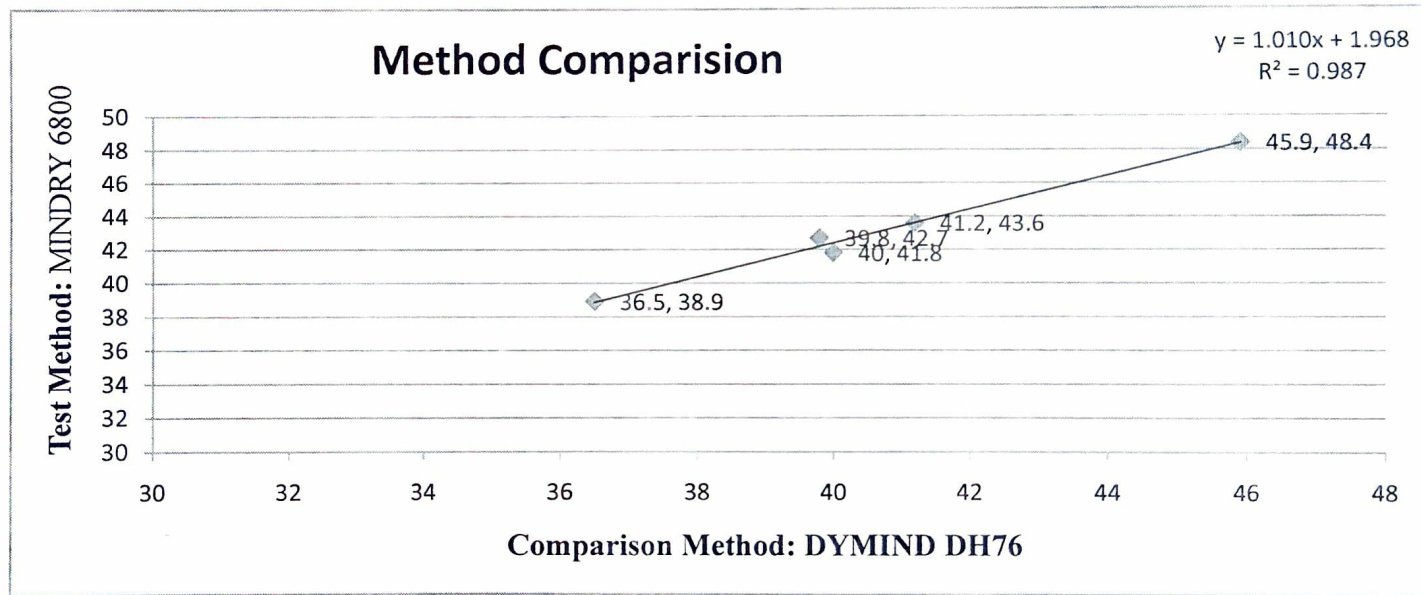


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Haematology Inter-Instrument Comparison HCT					
Sample Number	Comparison Method (x)	Test Method (y)	Difference(y - x)	Difference %	Acceptable Limits (as per CLIA)
2100009542	39.8	42.7	2.90	7.29	6%
2100009592	40	41.8	1.80	4.50	6%
2100009590	45.9	48.4	2.50	5.45	6%
2100009572	41.2	43.6	2.40	5.83	6%
2100009573	36.5	38.9	2.40	6.58	6%

Remarks: Acceptable, since $r < 0.95$.



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Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: 2100009542
Run Time: 2021/01/18 16:32
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	7.81	3.50-9.50	10 ³ /uL	16 RBC	4.49	3.80-5.80	10 ⁶ /uL
2 Neu%	66.3	40.0-75.0	%	17 HGB	13.3	11.5-17.5	g/dL
3 Lym%	28.7	20.0-50.0	%	18 HCT	39.8	35.0-50.0	%
4 Mon%	3.5	3.0-10.0	%	19 MCV	88.6	82.0-100.0	fL
5 Eos%	1.3	0.4-8.0	%	20 MCH	29.6	27.0-34.0	pg
6 Bas%	0.2	0.0-1.0	%	21 MCHC	33.4	31.6-35.4	g/dL
7 Neu#	5.18	1.80-6.30	10 ³ /uL	22 RDW-CV	14.5	11.0-16.0	%
8 Lym#	2.24	1.10-3.20	10 ³ /uL	23 RDW-SD	45.8	35.0-56.0	fL
9 Mon#	0.27	0.10-0.60	10 ³ /uL	24 PLT	302	125-350	10 ³ /uL
10 Eos#	0.10	0.02-0.52	10 ³ /uL	25 MPV	8.9	6.5-12.0	fL
11 Bas#	0.02	0.00-0.06	10 ³ /uL	26 PDW	10.1	9.0-17.0	fL
12 *ALY#	0.03	0.00-0.20	10 ³ /uL	27 PCT	0.269	0.108-0.282	%
13 *ALY%	0.4	0.0-2.0	%	28 P-LCR	17.7	11.0-45.0	%
14 *LIC#	0.00	0.00-0.20	10 ³ /uL	29 P-LCC	53	30-90	10 ⁹ /L
15 *LIC%	0.0	0.0-2.5	%				

*** means "Research use only, not for diagnostic use".

Sample Type:
Description:

Microscopic exam. Time:

Submitter:

Operator: admin

Approver:

Sampling Time: 2021/01/18 16:32

Delivery Time: 2021/01/18 16:32

Validated Time:

Report Time: 2021/01/21 18:54

Remarks:

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Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: 2100009592
Run Time: 2021/01/18 16:39
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	13.40 ↑	3.50-9.50	10 ³ /uL	16 RBC	4.45	3.80-5.80	10 ⁶ /uL
2 Neu%	76.7 ↑	40.0-75.0	%	17 HGB	13.5	11.5-17.5	g/dL
3 Lym%	21.0	20.0-50.0	%	18 HCT	40.0	35.0-50.0	%
4 Mon%	1.8 ↓	3.0-10.0	%	19 MCV	90.0	82.0-100.0	fL
5 Eos%	0.2 ↓	0.4-8.0	%	20 MCH	30.3	27.0-34.0	pg
6 Bas%	0.3	0.0-1.0	%	21 MCHC	33.6	31.6-35.4	g/dL
7 Neu#	10.28 ↑	1.80-6.30	10 ³ /uL	22 RDW-CV	14.5	11.0-16.0	%
8 Lym#	2.81	1.10-3.20	10 ³ /uL	23 RDW-SD	46.6	35.0-56.0	fL
9 Mon#	0.24	0.10-0.60	10 ³ /uL	24 PLT	260	125-350	10 ³ /uL
10 Eos#	0.03	0.02-0.52	10 ³ /uL	25 MPV	10.9	6.5-12.0	fL
11 Bas#	0.04	0.00-0.06	10 ³ /uL	26 PDW	12.7	9.0-17.0	fL
12 *ALY#	0.04	0.00-0.20	10 ³ /uL	27 PCT	0.284 ↑	0.108-0.282	%
13 *ALY%	0.3	0.0-2.0	%	28 P-LCR	33.2	11.0-45.0	%
14 *LIC#	0.02	0.00-0.20	10 ³ /uL	29 P-LCC	86	30-90	10 ⁹ /L
15 *LIC%	0.2	0.0-2.5	%				

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Sample Type:
Description:

Microscopic exam. Time:

Submitter:
Sampling Time: 2021/01/18 16:39
Report Time: 2021/01/21 18:55

Operator: admin
Delivery Time: 2021/01/18 16:39
Remarks:

Approver:
Validated Time:

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Hematology Analysis Report

First Name:
Last Name:
Gender:
Age:

Sample Type:
Department:
Med Rec. No.:

Sample ID: 2100009590
Run Time: 2021/01/18 16:37
Diagnosis:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	5.43	3.50-9.50	10 ³ /uL	16 RBC	5.48	3.80-5.80	10 ⁶ /uL
2 Neu%	53.2	40.0-75.0	%	17 HGB	15.6	11.5-17.5	g/dL
3 Lym%	39.4	20.0-50.0	%	18 HCT	45.9	35.0-50.0	%
4 Mon%	5.9	3.0-10.0	%	19 MCV	83.8	82.0-100.0	fL
5 Eos%	1.3	0.4-8.0	%	20 MCH	28.4	27.0-34.0	pg
6 Bas%	0.2	0.0-1.0	%	21 MCHC	33.9	31.6-35.4	g/dL
7 Neu#	2.89	1.80-6.30	10 ³ /uL	22 RDW-CV	15.1	11.0-16.0	%
8 Lym#	2.14	1.10-3.20	10 ³ /uL	23 RDW-SD	44.9	35.0-56.0	fL
9 Mon#	0.32	0.10-0.60	10 ³ /uL	24 PLT	178	125-350	10 ³ /uL
10 Eos#	0.07	0.02-0.52	10 ³ /uL	25 MPV	11.4	6.5-12.0	fL
11 Bas#	0.01	0.00-0.06	10 ³ /uL	26 PDW	13.7	9.0-17.0	fL
12 *ALY#	0.03	0.00-0.20	10 ³ /uL	27 PCT	0.203	0.108-0.282	%
13 *ALY%	0.6	0.0-2.0	%	28 P-LCR	36.0	11.0-45.0	%
14 *LIC#	0.00	0.00-0.20	10 ³ /uL	29 P-LCC	64	30-90	10 ⁹ /L
15 *LIC%	0.0	0.0-2.5	%				

**** means "Research use only, not for diagnostic use".

Sample Type:
Description:

Microscopic exam. Time:

Submitter:

Operator: admin

Approver:

Sampling Time: 2021/01/18 16:37

Delivery Time: 2021/01/18 16:37

Validated Time:

Report Time: 2021/01/21 18:55

Remarks:

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