PROFICIENCY TESTING REPORT

ISHTM-AIIMS EXTERNAL QUALITY ASSURANCE PROGRAMME

NABL accredited program as per ISO/IEC 17043:2010 standard

Organized By Department of Hematology, AIIMS, New Delhi-110029

NABL Certificate No. PC - 1002

Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens

EQAP CODE No. : 3818 **Distribution No.:** 152-J **Month/Year:** March/2021

Instrument ID: BC 6200 MINDRAY (TW - 97000584)

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,
Tel: 9013085730 , E-Mail : accuracy2000@gmail.com

Date of issue & status of the report: 24-05-2021[Final].

CBC and Retic Assessment

Test Parameters	S.No.			Among Lab (Accuracy Testing)				Within Lab (Precision Testing)			
		Your Result 1	Your Result 2	Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score	Yours Results Diff. of 2 Values	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score
WBC x10^3/µl	1	7.09	7.09	14.18	13.8	0.0410	**0.41**	0	0.1	0.0110	**-0.84**
RBC x10^6/µl	1	4.13	4.01	8.14	7.96	0.0110	**0.63**	0.12	0.04	0.0030	**1.80**
Hb g/dl	1	11.4	11.2	22.6	21.7	0.0290	**1.35**	0.2	0.1	0.0080	**1.35**
HCT%	1	36.3	35.4	71.7	67.5	0.1620	**1.09**	0.9	0.4	0.0270	**1.35**
MCV-fl	1	88.2	87.8	176	170.1	0.3220	**0.80**	0.4	0.3	0.0300	**0.17**
MCH-Pg	1	27.9	27.6	55.5	54.7	0.0880	**0.42**	0.3	0.3	0.0200	**0.00**
MCHC-g/dl	1	31.7	31.4	63.1	64.2	0.1490	**-0.33**	0.3	0.3	0.0220	**0.00**
Plt. x10^3/µl	1	263	223	486	406.5	2.29	**1.52**	40	7	0.47	**4.45**
Retic %	2										

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=01 , Poly=43 L=19, E=03, Mono/Promono=02 , B1=03 P.M.=05, Mye=12, Meta=12, Other=BASOPHILS - 01	Poly: 35 – 65, Myelo: 10 – 30, Meta: 5 – 15, Blast/Lympho/Promyelo: 1 – 10, nRBC/Baso/Eos/Mono: 0 – 5
RBC Morphology	3	MICROCYTIC HYPOCHROMIC	Predominantly: Normocytic/Normochromic; Moderate: Microcytosis, Anisocytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	CHRONIC MYELOID LEUKEMIA	Chronic Myeloid Leukemia (CML)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist.	Total No. responded	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3	
				Among labs	Within lab	Among labs	Within lab	Among labs	Within lab
WBC $x10^3/\mu l$	1	249	276	80.43	91.3	5.8	1.45	13.04	6.16
RBC $x10^6/\mu l$	1	249	276	88.04	90.58	6.16	2.54	5.07	6.16
Hb g/dl	1	249	276	88.77	90.58	5.07	4.35	5.8	4.71
HCT%	1	249	276	90.22	89.13	3.99	3.62	5.07	6.52
MCV-fl	1	249	276	86.59	93.12	9.06	0.72	3.62	5.43
MCH-Pg	1	249	276	86.23	94.57	7.61	1.45	5.43	3.26
MCHC-g/dl	1	249	276	87.68	89.49	6.52	5.43	5.07	4.35
Plt. $x10^3/\mu l$	1	249	276	86.59	88.04	6.16	5.8	6.52	5.43
ReticCount%	2	249	253	95.65	81.82	2.77	0.79	1.58	17.79
PS Assessment	3	249	257	Acceptable:94.4,Warning Signal:4.0,Unacceptable :1.6					

*Comments:

1). Among Lab (EQA) : Results acceptable.

2). Within Lab (IQA) : Difference in the CBC measurement values for *PLT* unacceptable, may be due to random/human error.

Note-1: EQA (External Quality Assurance) : Your Performance among various of participating labs in PT, to determine the accuracy of your results.
IQA (Internal Quality Assurance) : Your Performance of comparison of two consecutive measurement values within your lab to test the precision of your autoanalyzer.

Note-2: Z score among & within lab were calculated, as per to ISO/IEC 13528:2015 standard. Z score among lab (EQA)= (Your Result Sum of two values – Consensus Result sum of two values)/(Normalised IQR)
Z score within lab (IQA)= (Your Result Difference of two values – Consensus Result difference of two values)/(Normalised IQR)
IQR = Quartile 3 - Quartile 1 of participant data, Normalised IQR = 0.7413 x IQR

Note-3: Z score 0 to ±2: Acceptable, Z score ±2 to ±3 :Warning Signal, Z score > ±3 : Unacceptable [As per ISO/IEC 13528:2015 standard]

Note-4: Z score value between"0 to ±2" are texted in green colour. Z score value between"±2 to ±3" are texted in orange colour. Z score value > ±3 are texted in red colour.

Note-5: Homogeneity and stability testing of PT sample were done as per ISO 13528:2015 standard. To pass homogeneity test, between sample SD (Ss) should be smaller than the check value (0.3*SDPA). To pass the stability test, average difference in measurement values of first and last day sample ($\bar{x}$-$\bar{y}$) should be smaller than the check value (0.3*SDPA).

Note-6: ISHTM-AIIMS-EQAP does not subcontract any task of its scheme

Note-7: Participants are free to use methods/analyzer of their own choice.

Note-8: Proficiency testing (PT) samples are sent quarterly to each participant.

Note-9: All the necessary details regarding design and implementation of PT, are provided in the instruction sheet as well as on programme's website www.ishtmaiimseqap.com.

Report authorized by,

Dr. Seema Tyagi (Prof.)
PT Co-ordinator: ISHTM-AIIMS-EQAP
Department of Hematology, AIIMS, New Delhi

----------End Of Report----------

HIRA CLINICAL LAB

CIVIL HOSPITAL ROAD, HOSHIARPUR.

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Dr. S.K. HIRA
M.D. Pathology
Regd. No. 26299 (P.M.C.)

Name	**Ms. KIRAN**	Age/Gender	29 Yrs	Female
Patient ID	**102110835**	Recieved on	31/05/2021 09:12:57	
Doctor Incharge	Dr. PGI	Reported on	31/05/2021 17:24:16	

Test Name	Value	Unit	Reference Range
	HAEMATOLOGY		
Platelet Count	**1.44**	Lakh/cmm	1.50 - 4.00

*** End of Report ***

Dr. S K Hira
M.D (Pathology)

HIRA CLINICAL LAB
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Dr. S.K. HIRA
M.D. Pathology
Regd. No. 26299 (P.M.C.)

DATE : 31 / 05 / 2021

ISHTM-AIIMS EQAS Result Outlier for Platelet Count for March 2021 Report

The Platelet Count result submitted by our lab was 486 while the consensus result w 406.5. Though the Z Score given to this lab was 1.52 which is acceptable. The lab ha undertaken ILC for this test with Lal Path Labs (NABL Accredated) the results of our and Lal Path Labs corroborates (our result being 1.44 while LPL result was 1.50 for t same sample showing variation of less than 5%, which is acceptable. Hence no furth action is needed.

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Dr Lal PathLabs

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Web: www.lalpathlabs.com, CIN No.: L74899DL1995PLC065388

L19 - HIRA CLINICAL LABORATORY
CIVIL HOSPITAL ROAD HOSHIARPUR

Name	: Mrs. KIRAN			Collected	: 31/5/2021 3:19:00PM
Lab No.	: 306349746	Age: 29 Years	Gender: Female	Received	: 31/5/2021 3:20:27PM
A/c Status	: P	Ref By : SELF		Reported	: 31/5/2021 4:54:51PM
				Report Status	: Final

Test Name	Results	Units	Bio. Ref. Interval
PLATELET COUNT, WHOLE BLOOD (Electrical Impedence)	150.0	thou/mm3	150.00 - 410.00

Dr Jyotinder Pal Singh
MD Pathology
Chief of Laboratory
Dr Lal PathLabs Ltd

----------End of report ----------

IMPORTANT INSTRUCTIONS

*Test results released pertain to the specimen submitted.*All test results are dependent on the quality of the sample received by the Laboratory. *Laboratory investigations are only a tool to facilitate in arriving at a diagnosis and should be clinically correlated by the Referring Physician.*Sample repeats are accepted on request of Referring Physician within 7 days post reporting.*Report delivery may be delayed due to unforeseen circumstances. Inconvenience is regretted.*Certain tests may require further testing at additional cost for derivation of exact value. Kindly submit request within 72 hours post reporting.*Test results may show interlaboratory variations.*The Courts/Forum at Delhi shall have exclusive jurisdiction in all disputes/claims concerning the test(s) & or results of test(s).*Test results are not valid for medico legal purposes. *Contact customer care Tel No. +91-11-39885050 for all queries related to test results.
(#) Sample drawn from outside source.