



PROFICIENCY TESTING REPORT
ISHBT-AIIMS EXTERNAL QUALITY ASSURANCE PROGRAMME
 NABL accredited program as per ISO/IEC 17043:2010 standard
 Organized by Department of Hematology, AIIMS, New Delhi-110029



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

EQAP CODE No. : 1696

Distribution No.: 149-D

Month/Year: November/2019

Instrument ID: HORIBA YUMIZEN H500 (904YOXH02339)

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

Date of issue & status of the report: 27-12-2019[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 /pl	1	2.24	1.05	3.29	7.51	0.0150	-10.17	1.19	0.1	0.0050	12.25
RBC x10 ⁶ /pl	1	3.97	3.95	7.92	8.25	0.0070	-1.55	0.02	0.03	0.0010	-0.27
Hb g/dl	1	12.2	12.1	24.3	24.4	0.0180	-0.19	0.1	0.1	0.0060	0.00
HCT%	1	33.4	33.3	66.7	71.4	0.1400	-1.68	0.1	0.3	0.0170	-0.67
MCV-fl	1	84.3	84.2	168.5	180.4	0.3040	-1.21	0.1	0.2	0.0180	-0.34
MCH-Pg	1	30.7	30.5	61.2	59	0.0530	1.38	0.2	0.2	0.0110	0.00
MCHC-g/dl	1	36.5	36.2	72.7	65.65	0.1270	1.02	0.3	0.3	0.0110	0.00
Plt. x10 ³ /pl	1	227	223	450	409	1.05	1.32	4	6	0.30	-0.39
Retic %	2	3.5	3.2	6.7	7.15	0.16	-0.09	0.3	0.3	0.02	0.00

P.S. Assessment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs=00 Poly=75 L=02, E=03, Mono/Promono=01, B1=03 P.M.=11, Mve=03, Meta=02, Other=	Poly: 65-75, nRBC/Lymph/Plt/Mono/blast/pro. 0-5, Myelo. 10-15, Meta: 5-12, Baso: 0-2		
RBC Morphology	3	Microcytic, Hypochromic, Anisocytosis, Poikilocytosis	Predominantly: Normocytic Normochromic, Moderate: Anisocytosis, Mild: Microcytic		
Diagnosis	3	CML	Chronic Myeloid Leukemia (Chronic Phase) [CML-CP I]		

EQAP Code
No.: 1696Distribution No.: 149-
D
Month/Year:
November/2019Instrument ID: HORIBA YUMIZEN H500
(904YOXH02339)**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 /µl	1	450	372	88.17	90.59	4.3	3.49	6.99	4.57
RBC x10 ⁶ /µl	1	450	372	92.74	87.37	5.11	6.99	1.88	4.84
Hb g/dl	1	450	372	90.05	91.67	5.38	5.65	4.3	2.42
HCT%	1	450	372	95.7	98.98	2.96	4.84	1.08	5.38
MCV-fI	1	450	372	95.7	84.41	3.23	9.41	0.54	5.65
MCH-Pg	1	450	372	91.13	73.39	5.38	19.09	2.96	6.18
MCHC-g/dl	1	450	372	97.85	88.17	1.61	4.3	0	6.45
Plt. x10 ³ /µl	1	450	372	91.94	91.67	6.45	2.96	1.08	5.11
ReticCount%	2	450	324	94.14	90.86	4.32	12.96	2.16	8.02
PS Assessment	3	450	345	Acceptable:97%,Warning Signal:2.2%,Unacceptable 0.8%					

Comments:

- 1). Among Lab (EQA) : CBC result for WBC unacceptable, may be due to random/human error
- 2). Within Lab (IQA) : Difference in the CBC measurement values for WBC 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 = $0.7413 \times \text{IQR}$

Note-3: Z score 0 to ± 2 : Acceptable, Z score ± 2 to ± 3 : Warning-Signal, Z score $> \pm 3$: 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 $> \pm 3$ 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 ($0.3 \times \text{SDPA}$). 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 ($0.3 \times \text{SDPA}$).


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.ishtmaiims-eqap.com.

Report authorized by,


Dr. R. Saxena
Prof & Head, Hematology, AIIMS, Delhi.
PT Co-ordinator, ISHTM-AIIMS-EQAP

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