



**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



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

EQAP CODE No. : 1749

Distribution No.: 153-C

Month/Year: July/2021

Instrument ID: SYSMEX XP 100 , SN-A7677

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Date of issue & status of the report: 08-09-2021[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 <sup>9</sup> /µl	1	11.5	11.1	22.6	24.1	0.0830	-0.84	0.4	0.2	0.0130	1.08
RBC x10 <sup>9</sup> /µl	1	6.2	6.17	12.37	12.64	0.0130	-0.80	0.03	0.05	0.0030	-0.39
Hb g/dl	1	16.2	16.1	32.3	32.8	0.0320	-0.61	0.1	0.1	0.0090	0.00
HCT%	1	48.8	48.7	97.5	100.6	0.1840	-0.66	0.1	0.4	0.0280	-0.67
MCV-fl	1	78.9	78.7	157.6	159.5	0.2300	-0.33	0.2	0.3	0.0220	-0.27
MCH-Pg	1	26.1	26.1	52.2	51.8	0.0510	0.34	0	0.2	0.0140	-1.35
MCHC-g/dl	1	33.2	33.1	66.3	65	0.1150	0.45	0.1	0.2	0.0180	-0.45
Plt. x10 <sup>9</sup> /µl	1	534	527	1061	783.5	4.61	2.24	7	11	0.70	-0.39
Retic %	2	1.6	1.5	3.1	3.59	0.09	-0.18	0.1	0.2	0.02	-0.34

**P.S. Assesment**

YOUR REPORT		CONSENSUS REPORT
DLC%	3 Nrbcs=9.4 , Poly=40 L=24, E=02, Mono/Promono=03 , B1=12 P.M.=1, Mye=2, Meta=2, Other=	Poly: 40 - 60, Lympho: 15 - 30, Blast: 10 - 25, Myelo/Meta/nRBC/Promyelo/Eos/Baso/Mono: 0 - 5
RBC Morphology	3 anisopoikilocytosis	Predominantly: Microcytosis, Anisocytosis; Moderate: Hypochromia, Poikilocytosis; Mild: Normocytic/Normochromic, Macrocytosis, Tear drop cells, Schistocytes
Diagnosis	3 MYELOFIBROSIS	1. Myeloproliferative Neoplasm 2. CML - Accelerated/Blast phase

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## 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 <sup>9</sup> /µl	1	283	280	80.36	91.43	7.14	3.57	12.5	4.64
RBC x10 <sup>9</sup> /µl	1	283	282	92.2	89.01	4.26	3.9	3.55	7.09
Hb g/dl	1	283	282	87.94	86.88	5.32	0.35	6.74	7.09
HCT%	1	283	282	91.13	90.43	4.61	3.9	4.26	5.67
MCV-f	1	283	282	92.2	91.49	5.32	2.84	2.48	5.67
MCH-Pg	1	283	282	89.36	95.39	5.32	1.77	5.32	2.84
MCHC-g/dl	1	283	282	91.84	90.43	4.96	2.48	3.19	7.09
Plt. x10 <sup>9</sup> /µl	1	283	282	95.39	89.36	3.55	4.96	1.06	5.67
ReticCount%	2	283	238	92.02	87.82	3.78	0.84	3.36	11.76
PS Assessment	3	283	247	Acceptable:85.0%,Warning Signal:14.2%,Unacceptable :0.8%					

## Comments:

- 1). Among Lab (EQA) : Satisfactory Results
- 2). Within Lab (IQA) : Precision acceptable.

**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.ishtmaimseqap.com](http://www.ishtmaimseqap.com).

Report authorized by,



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