



**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. : 5598

Distribution No.: 164-N

Month/Year: August/2024

Instrument ID: SYSMEX

Model Name.: XP1003P

Serial No.: A9049

Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra ( Prof. & Head), Hematology, AIIMS, Delhi,  
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Date of issue &amp; status of the report: 24-09-2024 [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>3</sup> /µl	1										
RBC x10 <sup>6</sup> /µl	1	4.05	4.01	8.06	7.59	0.016	1.01	0.04	0.03	0.002	0.27
Hb g/dl	1	11.2	11.1	22.3	21.1	0.038	0.90	0.1	0.1	0.008	0.00
HCT%	1	37.7	37.3	75	68.8	0.219	1.05	0.4	0.3	0.020	0.34
MCV-fl	1	93.1	93	186.1	181.4	0.458	0.39	0.1	0.3	0.024	-0.54
MCH-Pg	1	27.7	27.7	55.4	55.6	0.081	-0.10	0	0.2	0.012	-0.90
MCHC-g/dl	1	29.8	29.7	59.5	61.85	0.187	-0.44	0.1	0.3	0.021	-0.83
Plt. x10 <sup>3</sup> /µl	1	168	164	332	335	2.347	-0.05	4	7	0.420	-0.51
Retic %	2	1.5	1	2.5	3.05	0.087	-0.22	0.5	0.2	0.015	1.01

### P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs=9 , Poly=29 L=32, E=2, Mono/Promono=2 , B1=27 P.M.=3, Mye=0, Meta=0, Other=SMUDGE CELLS	Blast: 20-45, Lympho: 26.25-53, Poly: 10-18, Mono: 1-5 Myelo/Meta/Promyelo/Eos/Baso : 0-5		
RBC Morphology	3	NORMOCYTIC HYPOCHROMIC	Predominantly: Normocytic/ Normochromic, Moderate: Microcytic, Anisopoikilocytosis, Mild: Tear drop cells, Spherocytes		
Diagnosis	3	ACUTE LEUKAEMIA	Acute Leukemia (AL)		

**COMBINED DATA VALUES OF TOTAL PARTICIPANTS**

Test parameters	S.No.	Total participants covered in the current dist. 164--N	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
<b>WBC x10<sup>3</sup>/µl</b>	1	285	283	85.16	91.17	14.84	3.53	0	5.3
<b>RBC x10<sup>6</sup>/µl</b>	1	285	285	95.44	94.39	3.51	2.46	1.05	3.15
<b>Hb g/dl</b>	1	285	285	98.25	91.23	1.4	3.16	0.35	5.61
<b>HCT%</b>	1	285	284	95.07	88.03	3.52	6.69	1.41	5.28
<b>MCV-fl</b>	1	285	284	93.31	91.9	5.63	2.82	1.06	5.28
<b>MCH-Pg</b>	1	285	284	86.97	75.35	9.15	16.55	3.88	8.1
<b>MCHC-g/dl</b>	1	285	284	96.48	86.27	2.11	4.93	1.41	8.8
<b>Plt. x10<sup>3</sup>/µl</b>	1	285	285	96.84	88.42	2.46	7.37	0.7	4.21
<b>ReticCount%</b>	2	285	210	90	85.71	6.67	1.43	3.33	12.86
<b>PS Assessment</b>	3	285	212	Satisfactory :82.76%, Borderline Sat. :13.02%, Unsatisfactory :4.22%					

**\*Comments:**

- 1). Among Lab (EQA) : Results acceptable.**
- 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  $\pm 2$ : Acceptable, Z score  $\pm 2$  to  $\pm 3$  :Warning Signal, Z score  $> \pm 3$  : Unacceptable [As per ISO/IEC 13528:2015 standard]

**Note-4:** Z score value between "0 to  $\pm 2$ " are texted in green colour. Z score value between " $\pm 2$  to  $\pm 3$ " 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\*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](http://www.ishtmaiimseqap.com).

**Note 10:** Reports are kept confidential.

Report authorized by,



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