



**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. : 4460

Distribution No.: 162-L

Month/Year: January/2024

Instrument ID: SYSMEX

Model Name.: XN-350

Serial No.: 17249

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: 01-04-2024[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	6.06	5.7	11.76	11.59	0.034	0.20	0.36	0.1	0.007	2.19
RBC x10 <sup>6</sup> /µl	1	4.22	4.18	8.4	8.58	0.011	-0.66	0.04	0.04	0.003	0.00
Hb g/dl	1	10.7	10.6	21.3	21.9	0.021	-1.01	0.1	0.1	0.007	0.00
HCT%	1	36.9	36.5	73.4	73.1	0.207	0.05	0.4	0.3	0.022	0.27
MCV-fl	1	87.4	87.3	174.7	171.85	0.394	0.24	0.1	0.2	0.021	-0.34
MCH-Pg	1	25.4	25.4	50.8	51	0.057	-0.13	0	0.2	0.013	-0.90
MCHC-g/dl	1	29	29	58	59.45	0.159	-0.30	0	0.3	0.017	-1.25
Plt. x10 <sup>3</sup> /µl	1	196	193	389	409	1.547	-0.48	3	7	0.389	-0.65
Retic %	2	15.4	12.13	27.53	24.9	0.441	0.18	3.27	1	0.061	1.91

### P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs= , Poly=32 L=5, E=3, Mono/Promono=1 , B1=9 P.M.=7, Mye=18, Meta=21, Other=	Blast: 22-49.75, Poly: 14-30, Lympho: 4-11, Myelo: 3-15, Meta: 2-10, Mono: 1-5, Eos: 1-4 ,Promyelo: 0-9.25, nRBC/Baso : 0-5		
RBC Morphology	3	Normocytic Normochromic	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic, poikilocytosis		
Diagnosis	3	CML-CMPD	Acute Leukemia (AL)		

**COMBINED DATA VALUES OF TOTAL PARTICIPANTS**

Test parameters	S.No.	Total participants covered in the current dist. 162--L	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	316	316	80.38	89.56	4.75	4.75	14.87	5.69
<b>RBC x10<sup>6</sup>/µl</b>	1	316	316	87.97	92.41	7.91	5.38	4.12	2.21
<b>Hb g/dl</b>	1	316	316	88.92	92.41	6.65	2.53	4.43	5.06
<b>HCT%</b>	1	316	316	96.84	91.77	2.85	4.43	0.31	3.8
<b>MCV-fl</b>	1	316	316	95.89	89.24	3.48	5.06	0.63	5.7
<b>MCH-Pg</b>	1	316	316	91.14	74.37	4.75	19.94	4.11	5.69
<b>MCHC-g/dl</b>	1	316	316	96.2	90.82	3.48	4.43	0.32	4.75
<b>Plt. x10<sup>3</sup>/µl</b>	1	316	316	91.77	92.09	6.65	4.75	1.58	3.16
<b>ReticCount%</b>	2	316	212	93.87	93.4	4.72	2.83	1.41	3.77
<b>PS Assessment</b>	3	316	198	Satisfactory :89.57%, Borderline Sat. :3.79%, Unsatisfactory :6.64%					

**\*Comments:**

1). **Among Lab (EQA) : PS Diagnosis wrongly reported, 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,



Dr. Manoranjan Mahapatra ( Prof. & Head)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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