



**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. : 1879

Distribution No.: 157-E

Month/Year: August/2022

Instrument ID: A7125

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,  
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Date of issue &amp; status of the report: 22-10-2022[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	9.9	9.8	19.7	17.38	0.1220	0.74	0.1	0.17	0.0110	-0.47
RBC x10 <sup>6</sup> /µl	1	5.69	5.67	11.36	10.98	0.0110	1.27	0.02	0.04	0.0030	-0.45
Hb g/dl	1	10.9	10.9	21.8	21.1	0.0220	1.18	0	0.1	0.0070	-1.35
HCT%	1	40.3	40.2	80.5	71.3	0.1690	2.01	0.1	0.3	0.0230	-0.54
MCV-fl	1	70.9	70.8	141.7	129.15	0.2640	1.68	0.1	0.2	0.0120	-0.45
MCH-Pg	1	19.2	19.2	38.4	38.5	0.0510	-0.08	0	0.1	0.0090	-0.79
MCHC-g/dl	1	27.1	27.1	54.2	59.2	0.1610	-1.12	0	0.2	0.0130	-0.90
Plt. x10 <sup>3</sup> /µl	1	288	285	573	465	2.38	1.64	3	7	0.49	-0.49
Retic %	2	4.3	4	8.3	8.5	0.17	-0.04	0.3	0.4	0.02	-0.34

### P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=3 , Poly=30 L=5, E=01, Mono/Promono=0 , B1=02 P.M.=03, Mye=11, Meta=14, Other=Plasma Cells/plasma blast cells:34
RBC Morphology	3	Moderate anisopoikilocytosis with Predominantly macrocytic and microcytic cells, with few normocytic normochromic cells. Also seen are few tear drop cells.
Diagnosis	3	Plasma Cell Leukemia.
		Chronic Myeloid Leukemia (Chronic Phase)

**COMBINED DATA VALUES OF TOTAL PARTICIPANTS**

Test parameters	S.No.	Total participants covered in the current dist. 157--E	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	313	311	85.85	89.07	10.29	4.18	3.86	6.75
<b>RBC x10<sup>6</sup>/µl</b>	1	313	313	87.86	90.42	5.43	3.83	6.71	5.75
<b>Hb g/dl</b>	1	313	313	85.94	90.73	5.11	4.47	8.95	4.8
<b>HCT%</b>	1	313	310	92.26	89.03	4.52	4.52	3.22	6.45
<b>MCV-fl</b>	1	313	310	91.94	88.39	3.87	9.03	4.19	2.58
<b>MCH-Pg</b>	1	313	309	85.76	91.91	5.5	4.21	8.74	3.88
<b>MCHC-g/dl</b>	1	313	309	91.59	91.91	5.18	4.53	3.23	3.56
<b>Plt. x10<sup>3</sup>/µl</b>	1	313	311	94.53	87.14	4.5	6.43	0.97	6.43
<b>ReticCount%</b>	2	313	288	97.92	93.4	1.39	1.04	0.69	5.56
<b>PS Assessment</b>	3	313	289	Satisfactory :74.77%, Borderline Sat. :9.58%, Unsatisfactory :15.65%					

**\*Comments:**

**1). Among Lab (EQA) : PS Diagnosis wrongly reported, remaining 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. Seema Tyagi (Prof.)

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