



**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. : 2398

Distribution No.: 154-F

Month/Year: November/2021

Instrument ID: ERBA H-360, 3 PART (K10012116054)

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

Date of issue &amp; status of the report: 03-03-2022[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	12.41	11.94	24.35	10.4	0.0520	<b>8.38</b>	0.47	0.1	0.0110	<b>2.94</b>
RBC x10 <sup>6</sup> /µl	1	4.13	3.81	7.94	8.44	0.0130	<b>-1.73</b>	0.32	0.04	0.0030	<b>6.30</b>
Hb g/dl	1	12.6	12.1	24.7	25.4	0.0300	<b>-0.94</b>	0.5	0.1	0.0090	<b>5.40</b>
HCT%	1	39	36.1	75.1	79.85	0.1810	<b>-1.05</b>	2.9	0.4	0.0280	<b>5.62</b>
MCV-fl	1	94.6	94.5	189.1	189.3	0.3200	<b>-0.03</b>	0.1	0.4	0.0300	<b>-0.51</b>
MCH-Pg	1	33.1	29.4	62.5	60	0.0910	<b>1.04</b>	3.7	0.3	0.0200	<b>11.47</b>
MCHC-g/dl	1	34.9	31.1	66	63.45	0.1430	<b>0.67</b>	3.8	0.3	0.0220	<b>11.80</b>
Plt. x10 <sup>3</sup> /µl	1	205	171	376	374	1.39	<b>0.05</b>	34	6	0.38	<b>5.40</b>
Retic %	2	10	8	18	10.3	0.21	<b>1.30</b>	2	0.39	0.03	<b>2.63</b>

### P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
<b>DLC%</b>	3	Nrbcs=2.00 , Poly=20.00 L=5.00, E=34.00, Mono/Promono=2.00 , B1=3.00 P.M.=4.00, Mye=13.00, Meta=15.00, Other=	Poly: 30-50 , Myelo: 14-29, blast: 1-8, Lympho: 3-7, Eosino: 2-5 , Promyelo: 2-8, nRBC/mono/Meta: 0-1		
<b>RBC Morphology</b>	3	MILD ANISOPOIKILOCYTOSIS, MICROCYTIC+, HYPOCHROMIC+, FEW POLYCHROMATIC RBCS	Predominantly: Normocytic Normochromic. Moderate: Anisocytosis. Mild: Microcytic		
<b>Diagnosis</b>	3	S/O CHRONIC MYELOID LEUKEMIA	Chronic Myeloid Leukemia (Chronic Phase) : CML-CP		

**COMBINED DATA VALUES OF TOTAL PARTICIPANTS**

Test parameters	S.No.	Total participants covered in the current dist. 154--F	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	272	268	76.12	84.33	7.09	6.72	16.79	8.95
<b>RBC x10<sup>6</sup>/µl</b>	1	272	272	87.5	88.24	6.62	2.94	5.88	8.82
<b>Hb g/dl</b>	1	272	272	86.76	86.4	6.99	4.04	6.25	9.56
<b>HCT%</b>	1	272	268	93.28	89.93	2.99	3.73	3.73	6.34
<b>MCV-fl</b>	1	272	268	89.55	95.15	7.09	1.87	3.36	2.98
<b>MCH-Pg</b>	1	272	268	92.91	87.31	4.48	5.22	2.61	7.47
<b>MCHC-g/dl</b>	1	272	268	94.4	87.31	2.99	5.97	2.61	6.72
<b>Plt. x10<sup>3</sup>/µl</b>	1	272	268	93.28	89.93	4.85	5.97	1.87	4.1
<b>ReticCount%</b>	2	272	269	97.03	91.45	1.12	1.49	1.85	7.06
<b>PS Assessment</b>	3	272	248	Satisfactory :84.32%, Borderline Sat. :15.32%, Unsatisfactory :0.36%					

**\*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 ±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.ishtmaiimseqap.com](http://www.ishtmaiimseqap.com).

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

Report authorized by,



Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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