



**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. : 1880

Distribution No.: 154-F

Month/Year: November/2021

Instrument ID: MEK6510

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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	4.9	4.7	9.6	10.4	0.0520	-0.49	0.2	0.1	0.0110	0.82
RBC x10 <sup>6</sup> /µl	1	4.38	4.32	8.7	8.45	0.0130	0.88	0.06	0.04	0.0030	0.40
Hb g/dl	1	12.8	12.7	25.5	25.4	0.0300	0.13	0.1	0.1	0.0090	0.00
HCT%	1	42.9	42	84.9	79.9	0.1810	1.11	0.9	0.4	0.0280	1.12
MCV-fl	1	97.9	97.2	195.1	189.3	0.3200	0.75	0.7	0.4	0.0300	0.51
MCH-Pg	1	29.4	29.2	58.6	60	0.0910	-0.57	0.2	0.3	0.0200	-0.34
MCHC-g/dl	1	30.2	29.8	60	63.4	0.1430	-0.90	0.4	0.3	0.0220	0.34
Plt. x10 <sup>3</sup> /µl	1	168	158	326	374	1.39	-1.30	10	6	0.38	0.77
Retic %	2	7.8	7.1	14.9	10.3	0.21	0.78	0.7	0.4	0.03	0.45

### P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs=2.00 , Poly=52.00 L=6.00, E=2.00, Mono/Promono=3.00 , B1=3.00 P.M.=4.00, Mye=20.00, Meta=8.00, Other=0.00	Poly: 30-50 , Myelo: 14-29, blast: 1-8, Lympho: 3-7, Eosino: 2-5 , Promyelo: 2-8, nRBC/mono/Meta: 0-1		
RBC Morphology	3	PREDOMINANTLY NORMOCYTIC NORMOCHROMIC	Predominantly: Normocytic Normochromic. Moderate: Anisocytosis. Mild: Microcytic		
Diagnosis	3	SUGGESTIVE OF CHRONIC MYELOPROLIFERATIVE DISORDER-CHRONIC PHASE	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	273	269	76.21	84.39	7.06	6.69	16.73	8.92
<b>RBC x10<sup>6</sup>/µl</b>	1	273	273	87.55	88.28	6.59	2.93	5.86	8.79
<b>Hb g/dl</b>	1	273	273	86.81	86.45	6.96	4.03	6.23	9.52
<b>HCT%</b>	1	273	269	93.31	89.96	2.97	3.72	3.72	6.32
<b>MCV-fl</b>	1	273	269	89.59	95.17	7.06	1.86	3.35	2.97
<b>MCH-Pg</b>	1	273	269	92.94	87.36	4.46	5.2	2.6	7.44
<b>MCHC-g/dl</b>	1	273	269	94.42	87.36	2.97	5.95	2.61	6.69
<b>Plt. x10<sup>3</sup>/µl</b>	1	273	269	93.31	89.96	4.83	5.95	1.86	4.09
<b>ReticCount%</b>	2	273	273	95.6	90.48	1.47	1.47	2.93	8.05
<b>PS Assessment</b>	3	273	249	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  $\pm 2$ : 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).

Report authorized by,



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PT Co-ordinator: ISHTM-AIIMS-EQAP

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