



**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. : 4285

Distribution No.: 156-K

Month/Year: July/2022

Instrument ID: Mindray BC -6200 , TW-9A000724

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: 25-09-2022[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	4.51	4.31	8.82	9.2	0.0610	-0.24	0.2	0.1	0.0110	0.57
RBC x10 <sup>6</sup> /µl	1	4.53	4.47	9	8.88	0.0110	0.45	0.06	0.05	0.0030	0.19
Hb g/dl	1	14	13.7	27.7	27	0.0370	0.73	0.3	0.1	0.0100	1.35
HCT%	1	44.7	44.2	88.9	83.2	0.2210	1.06	0.5	0.5	0.0370	0.00
MCV-fl	1	98.8	98.5	197.3	186.65	0.3960	1.18	0.3	0.3	0.0270	0.00
MCH-Pg	1	30.8	30.6	61.4	60.9	0.0870	0.26	0.2	0.3	0.0190	-0.34
MCHC-g/dl	1	31.3	30.9	62.2	65.15	0.1890	-0.67	0.4	0.3	0.0210	0.32
Plt. x10 <sup>3</sup> /µl	1	111	106	217	211.5	1.74	0.12	5	4	0.32	0.22
Retic %	2	1.4	1.2	2.6	3.8	0.10	-0.48	0.2	0.2	0.01	0.00

### P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=1 , Poly=45 L=4, E=2, Mono/Promono=6 , B1=2 P.M.=3, Mye=24, Meta=14, Other=
RBC Morphology	3	Poly: 35 - 48, Myelo: 14 - 26, Meta: 8 - 15, Promyelo: 3-7, nRBC/Lympho /Blast/Eos/Baso/Mono: 0 - 5
Diagnosis	3	Mild anisocytosis with predominantly Normocytic Normochromic RBC, Mild Hypochromia +, few microcytes+
		Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
		Chronic Myeloid Leukemia(CML) - Chronic phase
		Chronic Myeloid Leukemia (Chronic Phase)

**COMBINED DATA VALUES OF TOTAL PARTICIPANTS**

Test parameters	S.No.	Total participants covered in the current dist. 156--K	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	252	248	84.27	87.1	6.85	2.42	8.88	10.48
<b>RBC x10<sup>6</sup>/µl</b>	1	252	252	86.11	92.46	6.75	1.59	7.14	5.95
<b>Hb g/dl</b>	1	252	252	90.87	82.54	1.98	7.94	7.15	9.52
<b>HCT%</b>	1	252	248	94.35	91.94	2.42	2.82	3.23	5.24
<b>MCV-fl</b>	1	252	248	89.11	94.35	6.85	2.42	4.04	3.23
<b>MCH-Pg</b>	1	252	248	87.1	91.53	6.05	2.82	6.85	5.65
<b>MCHC-g/dl</b>	1	252	248	91.13	91.94	4.44	2.42	4.43	5.64
<b>Plt. x10<sup>3</sup>/µl</b>	1	252	248	92.34	89.11	3.63	5.24	4.03	5.65
<b>ReticCount%</b>	2	252	214	93.46	89.72	4.67	7.48	1.87	2.80
<b>PS Assessment</b>	3	252	213	Satisfactory :93.65%, Borderline Sat. :4.76%, Unsatisfactory :1.58%					

**\*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,



Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

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