



**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. : 6810

Distribution No.: 164-Q

Month/Year: July/2024

Instrument ID: Mindray

Model Name.: Mindray BC 6200

Serial No.: TW-91000341

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: 12-09-2024 [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	4.78	4.77	9.55	9.45	0.050	0.10	0.01	0.12	0.011	-0.74
RBC x10 <sup>6</sup> /µl	1	4.24	4.15	8.39	8.2	0.013	0.67	0.09	0.04	0.003	0.96
Hb g/dl	1	13	12.9	25.9	25.5	0.036	0.54	0.1	0.1	0.009	0.00
HCT%	1	43.1	42.8	85.9	75.9	0.198	2.09	0.3	0.3	0.029	0.00
MCV-fl	1	103.1	101.7	204.8	185.5	0.364	2.09	1.4	0.3	0.023	2.97
MCH-Pg	1	30.7	30.1	60.8	62	0.099	-0.50	0.6	0.2	0.018	1.35
MCHC-g/dl	1	30.2	30.1	60.3	66.9	0.165	-1.65	0.1	0.3	0.024	-0.54
Plt. x10 <sup>3</sup> /µl	1	110	104	214	239	1.683	-0.65	6	5	0.386	0.17
Retic %	2	2	1.6	3.6	3	0.073	0.33	0.4	0.2	0.023	0.65

### P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=2 L=0, E=0, Mono/Promono=1 , B1=95 P.M.=0, Mye=1, Meta=1, Other=TLC> 2lacs/cumm, Severe thrombocytopenia	Blast: 84.25 - 93, Lympho: 2 - 6, Poly: 2 - 6, Mono/Myelo/Meta/Eos/Promyelo/Baso : 0-5
RBC Morphology	3	Normocytic , hypochromia 1+	Predominantly: Normocytic/ Normochromic, Moderate: Macrocytic, Mild: Tear drop cells, Macroovalocytes++
Diagnosis	3	Acute Myeloid leukaemia (M0/M1)	Acute Leukemia (AL)

**COMBINED DATA VALUES OF TOTAL PARTICIPANTS**

Test parameters	S.No.	Total participants covered in the current dist. 164--Q	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	259	259	78.76	85.33	4.63	1.93	16.61	12.74
<b>RBC x10<sup>6</sup>/µl</b>	1	259	259	83.4	87.64	8.11	3.47	8.49	8.89
<b>Hb g/dl</b>	1	259	259	81.47	82.24	10.81	5.79	7.72	11.97
<b>HCT%</b>	1	259	259	89.19	88.8	5.41	3.86	5.4	7.34
<b>MCV-fl</b>	1	259	259	92.66	87.64	5.79	3.47	1.55	8.89
<b>MCH-Pg</b>	1	259	259	90.35	86.49	6.56	6.18	3.09	7.33
<b>MCHC-g/dl</b>	1	259	259	91.89	89.19	6.56	1.93	1.55	8.88
<b>Plt. x10<sup>3</sup>/µl</b>	1	259	259	90.73	86.87	4.63	5.41	4.64	7.72
<b>ReticCount%</b>	2	259	195	91.28	96.41	4.62	0.51	4.1	3.08
<b>PS Assessment</b>	3	259	210	Satisfactory :94.99%, Borderline Sat. :2.31%, Unsatisfactory :2.70%					

**\*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 ( $0.3 \times \text{SDPA}$ ). 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 ( $0.3 \times \text{SDPA}$ ).

**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

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