



**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*

EQAPCODE No.:5068

Distribution No.:160-I

Month/Year:Dec/2023

Instrument ID:SS-48000782

**Name & Contact No. of PT Co-ordinator:** Dr. Manoranjan Mahapatra ( Prof. & Head), Hematology, AIIMS, Delhi,  
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**Date of issue & status of the report:** 08-08-2023 [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	Your Results Diff. of 2 Values	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score
WBCx10 <sup>3</sup> /μl	1	6.2	6.2	12.4	12	0.089	0.21	0	0.1	0.013	-0.90
RBCx10 <sup>6</sup> /μl	1	4.84	4.73	9.57	9.61	0.014	-0.17	0.11	0.04	0.004	1.57
Hbg/dl	1	14.8	14.6	29.4	30.3	0.054	-0.97	0.2	0.1	0.011	1.35
HCT%	1	46.5	45.3	91.8	92.3	0.320	-0.08	1.2	0.4	0.041	1.80
MCV-fl	1	95.9	95.9	191.8	193	0.544	-0.11	0	0.3	0.031	-0.81
MCH-Pg	1	30.9	30.5	61.4	63	0.106	-0.81	0.4	0.3	0.023	0.45
MCHC-g/dl	1	32.2	31.8	64	64.6	0.229	-0.13	0.4	0.3	0.028	0.34
Plt.x10 <sup>3</sup> /μl	1	140	133	273	305	2.716	-0.71	7	5	0.459	0.36
Retic%	2	0.6	0.5	1.1	5.4	0.169	-1.33	0.1	0.3	0.032	-0.54

### P.S. Assessment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs= , Poly=10 L=64, E=, Mono/Promono=4, B1=22P.M.=, Mye=, Meta=, Other=auer rods+/-	Blast: 38-63, Poly: 9-17, Lympho: 8-20, Myelo: 2-9, Mono: 1-5, nRBC/Promyelo/Meta/Eos: 0-5		
RBC Morphology	3	microcytic hypochromic platelets reduced	Predominantly: Normocytic/Normochromic; Moderate: Microcytosis, Hypochromia; Mild: Anisocytosis		
Diagnosis	3	acute leukaemia	Acute Myeloid Leukemia (AML)		

**COMBINED DATA VALUES OF TOTAL PARTICIPANTS**

Test parameters	S.No.	Total participants covered in the current dist. 160--I	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
WBCx10 <sup>3</sup> /μl	1	145	143	86.71	86.71	4.2	4.9	9.09	8.39
RBCx10 <sup>6</sup> /μl	1	145	145	84.14	88.97	7.59	2.07	8.27	8.96
Hbg/dl	1	145	145	85.52	86.9	6.21	6.9	8.27	6.2
HCT%	1	145	143	93.01	90.21	4.9	5.59	2.09	4.2
MCV-fl	1	145	143	93.71	88.11	4.2	7.69	2.09	4.2
MCH-Pg	1	145	143	87.41	93.01	5.59	2.8	7	4.19
MCHC-g/dl	1	145	143	93.71	90.21	4.2	2.8	2.09	6.99
Plt.x10 <sup>3</sup> /μl	1	145	143	90.21	93.01	8.39	1.4	1.4	5.59
ReticCount%	2	145	134	92.54	95.52	5.97	0.00	1.49	4.48
PSAssessment	3	145	129	Satisfactory:91.05%,BorderlineSat.:2.06%,Unsatisfactory:6.89%					

**\*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=Quartile3-Quartile1 of participant data, Normalised IQR=0.7413xIQR

**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 (x-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,



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