



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.: 1325 **Distribution No.:** 161-C **Month/Year:** August/2023

Instrument ID: K11052315035

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: 23-10-2023[provisional].

CBC and Retic Assessment

Test Parameters	S.No.			Amon <mark>g Lab</mark> (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)	of Acciers of		Results	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score		
WBC x10³/μl	1	4.87	4.84	9.71	9.3	0.029	0.54	0.03	0.1	0.006	-0.63		
RBC x10 ⁶ /μl	1	3.86	3.82	7.68	7.39	0.006	1.78	0.04	0.03	0.002	0.34		
Hb g/dl	1	11.5	11.5	23	23.3	0.020	-0.51	0	0.1	0.007	-1.35		
НСТ%	1	36	35.7	71.7	70.1	0.114	0.49	0.3	0.3	0.021	0.00		
MCV-fl	1	93.4	93.2	186.6	189.7	0.245	-0.44	0.2	0.3	0.020	-0.30		
MCH-Pg	1	30	29.9	59.9	63.2	0.063	-1.89	0.1	0.2	0.015	-0.45		
MCHC-g/dl	1	32.2	32.1	64.3	66.6	0.116	-0.67	0.1	0.3	0.016	-0.67		
Plt. x10³/μl	1	136	129	265	308	1.404	-1.02	7	4	0.259	0.67		
Retic %	2	0.5	0.3	0.8	2.5	0.055	-0.93	0.2	0.2	0.011	0.00		

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT				
DLC%			Poly: 38 - 52, Myelo: 15 - 26, Meta: 9- 17, Blast: 2-6, Promyelo: 2-6, Lympho: 2- 5, Eosino: 2-5, Mono: 1-2, nRBC/ Baso: 0-5				
RBC Morphology	3	Anisocytosis(+++),Poikilocytosis(++),Microcytes(++),Hypochromia(++) Tear Drop cells (+)and Polychronatophils(+)	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Hypochromic, Mild: Poikilocytosis,Tear drop cells				
Diagnosis	3	Chronic Myeloproliferative Disorder.	Chronic Myeloid Leukemia (Chronic Phase)				

Test parameters	S No	Total participants covered in the current dist.	Total No. responded	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3		
Test parameters	5.NU.			Among labs	Within lab	Among labs	Within lab	Among labs	Within lab	
WBC x10³/μl	1	359	358	82.12	88.55	3.91	4.75	13.97	6.7	
RBC x10 ⁶ /μl	1	359	359	88.02	90.81	8.64	4.46	3.34	4.73	
Hb g/dl	1	359	359	89.97	91.09	5.57	5.01	4.46	3.9	
HCT%	1	359	358	91.9	88.55	6.7	6.98	1.4	4.47	
MCV-fl	1	359	359	92.48	93.31	6.69	2.79	0.83	3.9	
MCH-Pg	1	359	359	89.42	93.87	5.57	1.67	5.01	4.46	
MCHC-g/dl	1	359	35 <mark>9</mark>	93.31	91.36	4.18	4.18	2.51	4.46	
Plt. x10³/μl	1	359	359	94.43	91.36	3.9	5.29	1.67	3.35	
ReticCount%	2	359	298	91.61	91.95	5.37	6.71	3.02	1.34	
PS Assessment	3	359	335	Satisfactory:96.11%, Borderline Sat.: 2.50%, Unsatisfactory:1.39%						

*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 $> \pm 3$: 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 $> \pm 3$ 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.

Note 10: Reports are kept confidential.

Report authorized by,

Dr. Manoranjan Mahapatra (Prof. & Head)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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