



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. : 5721

Distribution No.: 160-0

Month/Year: July/2023

Instrument ID: K1104B2143231

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: 19-09-2023[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	Yours Results Diff. of 2 Values	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score
WBC x10 ³ /µl	1	3.51	3.45	6.96	6.86	0.043	0.12	0.06	0.08	0.006	-0.30
RBC x10 ⁶ /µl	1	4.6	4.52	9.12	9.52	0.016	-1.27	0.08	0.04	0.004	0.67
Hb g/dl	1	11.8	11.8	23.6	25.3	0.036	-2.08	0	0.1	0.011	-0.67
HCT%	1	40.3	39.6	79.9	80.7	0.256	-0.15	0.7	0.4	0.045	0.51
MCV-fl	1	87.7	87.6	175.3	169.25	0.451	0.62	0.1	0.3	0.030	-0.45
MCH-Pg	1	26	25.7	51.7	53	0.104	-0.65	0.3	0.2	0.018	0.45
MCHC-g/dl	1	29.7	29.3	59	63.1	0.231	-0.88	0.4	0.3	0.027	0.28
Plt. x10 ³ /µl	1	170	160	330	316.5	2.317	0.26	10	7	0.578	0.45
Retic %	2	0.8	0.6	1.4	1.58	0.054	-0.12	0.2	0.2	0.014	0.00

P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=2 , Poly=64 L=3, E=0, Mono/Promono=2 , B1=3 P.M.=6, Mye=10, Meta=10, Other=
RBC Morphology	3	Normocytic normochromic with a few microcytes, hypochromic RBCs and occasional spherocytes. a few polychromatophilic RBCs seen
Diagnosis	3	Chronic Myeloid Leukemia possibly Chronic phase

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 160--O	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
WBC x10³/µl	1	199	198	86.36	93.43	3.54	1.01	10.1	5.56
RBC x10⁶/µl	1	199	199	87.44	86.93	5.53	5.53	7.03	7.54
Hb g/dl	1	199	199	86.93	82.91	6.53	5.53	6.54	11.56
HCT%	1	199	198	92.93	90.4	2.53	3.03	4.54	6.57
MCV-fl	1	199	198	92.42	87.88	6.57	4.04	1.01	8.08
MCH-Pg	1	199	198	83.33	92.93	9.09	1.01	7.58	6.06
MCHC-g/dl	1	199	198	90.91	85.86	5.56	5.05	3.53	9.09
Plt. x10³/µl	1	199	198	89.39	92.93	6.06	3.54	4.55	3.53
ReticCount%	2	199	151	85.43	92.72	7.28	9.93	7.29	-2.65
PS Assessment	3	199	163	Satisfactory :98.5%, Borderline Sat. :0%, Unsatisfactory :1.50%					

***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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