



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. : 3982

Distribution No.: 160-K

Month/Year: July/2023

Instrument ID: C3577

Model Name.:

Serial No.:

Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra (Prof. & Head), Hematology, AIIMS, Delhi,
 Tel: 9013085730 , E-Mail : accuracy2000@gmail.com

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	5.1	5	10.1	11.1	0.164	-0.24	0.1	0.17	0.013	-0.38
RBC x10 ⁶ /µl	1	4.94	4.91	9.85	10	0.013	-0.47	0.03	0.06	0.004	-0.58
Hb g/dl	1	13.5	13.4	26.9	27.3	0.030	-0.60	0.1	0.1	0.009	0.00
HCT%	1	43.2	42.8	86	84.15	0.237	0.28	0.4	0.5	0.039	-0.17
MCV-fl	1	87.4	87.2	174.6	168.7	0.369	0.57	0.2	0.2	0.022	0.00
MCH-Pg	1	27.5	27.1	54.6	54.6	0.080	0.00	0.4	0.3	0.019	0.34
MCHC-g/dl	1	31.5	31	62.5	64.2	0.183	-0.34	0.5	0.3	0.023	0.54
Plt. x10 ³ /µl	1	175	171	346	350.5	2.856	-0.06	4	7	0.500	-0.45
Retic %	2	1.5	1.4	2.9	1.8	0.054	0.72	0.1	0.2	0.010	-0.67

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs= , Poly=52 L=05, E=01, Mono/Promono= , B1=02 P.M.=, Mye=16, Meta=22, Other=BAND FORM	Poly: 39 - 55, Myelo: 14 - 27, Meta: 7- 16, Lympho: 2- 6, Promyelo: 1-8, Blast: 1-5, Eosino: 1-4, nRBC/ Mono, Baso: 0-5		
RBC Morphology	3		Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromic, Mild: Poikilocytosis		
Diagnosis	3	CML	Chronic Myeloid Leukemia (Chronic Phase)		

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 160--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
WBC x10³/µl	1	281	276	87.68	88.77	5.43	6.16	6.89	5.07
RBC x10⁶/µl	1	281	281	85.05	86.48	6.41	6.41	8.54	7.11
Hb g/dl	1	281	281	83.99	60.85	6.76	28.11	9.25	11.04
HCT%	1	281	275	93.82	89.45	4	4.73	2.18	5.82
MCV-fl	1	281	275	93.45	85.82	4.73	8.73	1.82	5.45
MCH-Pg	1	281	275	83.27	87.64	7.64	4.73	9.09	7.63
MCHC-g/dl	1	281	275	93.45	90.55	4.73	5.82	1.82	3.63
Plt. x10³/µl	1	281	275	90.55	90.18	7.64	4.73	1.81	5.09
ReticCount%	2	281	214	85.51	86.45	5.14	11.21	9.35	2.34
PS Assessment	3	281	233	Satisfactory :96.1%, Borderline Sat. :1.06%, Unsatisfactory :2.84%					

***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

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