



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. : 1807

Distribution No.: 161-E

Month/Year: September/2023

Instrument ID: EZY2100Z3200803211
Zybio Z3

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: 30-10-2023[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	3.7	3.6	7.3	6.88	0.038	0.44	0.1	0.1	0.005	0.00
RBC x10 ⁶ /µl	1	4.36	4.31	8.67	8.82	0.011	-0.58	0.05	0.04	0.002	0.27
Hb g/dl	1	12.4	12.3	24.7	25.75	0.029	-1.42	0.1	0.1	0.008	0.00
HCT%	1	38.5	37.7	76.2	81.6	0.186	-1.12	0.8	0.4	0.025	1.08
MCV-fl	1	88.9	88.4	177.3	184.6	0.302	-0.83	0.5	0.3	0.024	0.45
MCH-Pg	1	28.8	28.4	57.2	58.2	0.070	-0.59	0.4	0.2	0.016	0.67
MCHC-g/dl	1	32.4	32.2	64.6	62.8	0.146	0.49	0.2	0.3	0.022	-0.34
Plt. x10 ³ /µl	1	129	128	257	306	1.568	-1.21	1	5	0.336	-0.67
Retic %	2	4.2	4.1	8.3	4.9	0.112	1.07	0.1	0.3	0.021	-0.67

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs= , Poly=43 L=4, E=01, Mono/Promono=06 , B1=8 P.M.=, Mye=15, Meta=10, Other=Atypical cells 12	Poly: 46 - 62, Myelo: 11 - 20, Meta: 7- 15, Promyelo: 2-7, Lympho: 2- 5, Blast: 2-4, Eosino: 1-3, nRBC/Mono, Baso: 0-6		
RBC Morphology	3	Mild anisopoikilocytosis. predominantly normocytic normochromic	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Hypochromic, Mild: Poikilocytosis		
Diagnosis	3	Likely suggestive of chronic Myeloproliferative disorder.	Chronic Myeloid Leukemia (Chronic Phase)		

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 161--E	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	314	314	88.54	92.99	5.41	3.82	6.05	3.19
RBC x10⁶/µl	1	314	314	85.67	90.45	7.01	2.55	7.32	7
Hb g/dl	1	314	314	86.31	90.45	4.46	5.1	9.23	4.45
HCT%	1	314	313	87.86	92.33	7.67	2.56	4.47	5.11
MCV-fl	1	314	314	92.99	93.63	2.55	3.5	4.46	2.87
MCH-Pg	1	314	314	85.35	92.04	6.69	4.46	7.96	3.5
MCHC-g/dl	1	314	314	88.85	86.31	7.01	2.87	4.14	10.82
Plt. x10³/µl	1	314	314	90.76	91.72	6.37	4.46	2.87	3.82
ReticCount%	2	314	263	92.4	80.99	4.18	0.76	3.42	18.25
PS Assessment	3	314	281	Satisfactory :94.92%, Borderline Sat. :2.54%, Unsatisfactory :2.54%					

***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-----