



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. : 5060

Distribution No.: 157-M

Month/Year: October/2022

Instrument ID: ERBA-H560, K11042132033

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

Date of issue & status of the report: 24-11-2022[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	5.39	5.15	10.54	11.2	0.0290	-0.82	0.24	0.1	0.0060	1.35
RBC x10 ⁶ /µl	1	3.78	3.77	7.55	7.55	0.0080	0.00	0.01	0.04	0.0030	-0.67
Hb g/dl	1	11.8	11.8	23.6	23.7	0.0270	-0.15	0	0.1	0.0080	-0.67
HCT%	1	36.1	35.9	72	73.3	0.1660	-0.27	0.2	0.4	0.0250	-0.39
MCV-fl	1	95.5	95.2	190.7	194.6	0.3960	-0.34	0.3	0.3	0.0210	0.00
MCH-Pg	1	31.2	31.2	62.4	62.6	0.0840	-0.08	0	0.3	0.0200	-0.81
MCHC-g/dl	1	32.8	32.7	65.5	64.5	0.1500	0.24	0.1	0.3	0.0220	-0.54
Plt. x10 ³ /µl	1	148	147	295	281	1.19	0.44	1	4	0.28	-0.67
Retic %	2	7.5	7.2	14.7	10.5	0.23	0.63	0.3	0.5	0.03	-0.34

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs=03 , Poly=65 L=07, E=04, Mono/Promono=01 , B1=02 P.M.=03, Mye=11, Meta=07, Other=	Poly: 60 - 77, Myelo: 5 - 12, Meta: 5 - 10, Lympho: 3 - 7, Eos: 1- 3, nRBC/ Baso/ Promyelo, Blast Mono: 0 - 5		
RBC Morphology	3	MILD ANISOPOIKILOCYTOSIS,PREDOMINANTLY NORMOCYTIC NORMOCHROMIC,FEW MICROCYTIC HYPOCHROMIC CELLS,OCCASINAL TEAR DROP AND POLYCHROMATIC CELL.	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia		
Diagnosis	3	?CML(CHRONIC PHASE).ADVISE-LAP,BCR-ABL STUDY.	Chronic Myeloid Leukemia		

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 157--M	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	334	333	83.18	88.59	6.61	5.11	10.21	6.3
RBC x10⁶/µl	1	334	334	88.62	88.92	5.09	5.69	6.29	5.39
Hb g/dl	1	334	334	86.53	85.93	5.99	6.89	7.48	7.18
HCT%	1	334	332	93.98	91.57	4.22	3.31	1.8	5.12
MCV-fl	1	334	333	95.5	90.99	3	2.4	1.5	6.61
MCH-Pg	1	334	333	90.09	85.59	5.71	7.81	4.2	6.6
MCHC-g/dl	1	334	333	93.69	91.89	3.9	2.1	2.41	6.01
Plt. x10³/µl	1	334	333	91.29	91.89	5.71	4.2	3	3.91
ReticCount%	2	334	297	87.88	88.22	7.41	7.07	4.71	4.71
PS Assessment	3	334	270	Satisfactory :87.66%, Borderline Sat. :11.14%, Unsatisfactory :1.20%					

***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. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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