



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. : 2212

Distribution No.: 160-F

Month/Year: June/2023

Instrument ID: 36642202111

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: 01-08-2023[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	5.06	10.16	10.7	0.037	-0.56	0.04	0.1	0.005	-0.74
RBC x10 ⁶ /µl	1	5.17	5.12	10.29	10.22	0.011	0.25	0.05	0.05	0.003	0.00
Hb g/dl	1	14.1	14	28.1	28.7	0.027	-0.90	0.1	0.1	0.008	0.00
HCT%	1	47.4	46.8	94.2	90.7	0.206	0.59	0.6	0.4	0.024	0.54
MCV-fl	1	91.7	91.4	183.1	178.6	0.326	0.45	0.3	0.3	0.020	0.00
MCH-Pg	1	27.3	27.3	54.6	56	0.068	-0.79	0	0.2	0.015	-0.90
MCHC-g/dl	1	29.9	29.9	59.8	62.7	0.147	-0.65	0	0.3	0.018	-1.01
Plt. x10 ³ /µl	1	89	88	177	235.5	1.723	-1.30	1	5	0.331	-0.67
Retic %	2	1	1	2	10.9	0.282	-0.99	0	0.5	0.034	-0.84

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs=100 , Poly=05 L=, E=, Mono/Promono= , B1= P.M.=, Mye=, Meta=, Other=	Blast: 49-83, Lympho: 3-10, Myelo: 2-10, Poly: 2-7, Promyelo: 0-9, nRBC/Mono/Eos/Baso/Meta: 0-5		
RBC Morphology	3	NC NC++, ANISO++	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic		
Diagnosis	3	ACUTE MYELOBLASTIC LEUKAEMIA	Acute Leukemia (AL)		

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 160--F	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	326	324	85.49	90.12	6.17	5.25	8.34	4.63
RBC x10⁶/µl	1	326	326	87.42	91.72	7.98	2.76	4.6	5.52
Hb g/dl	1	326	326	86.81	86.81	6.75	4.6	6.44	8.59
HCT%	1	326	323	95.05	83.59	2.79	6.19	2.16	10.22
MCV-fl	1	326	323	95.67	85.14	3.1	9.29	1.23	5.57
MCH-Pg	1	326	321	88.16	95.02	7.79	1.87	4.05	3.11
MCHC-g/dl	1	326	323	95.98	91.33	3.41	4.64	0.61	4.03
Plt. x10³/µl	1	326	324	91.67	91.98	7.1	4.94	1.23	3.08
ReticCount%	2	326	273	93.77	88.64	4.03	8.06	2.2	3.30
PS Assessment	3	326	282	Satisfactory :91.67%, Borderline Sat. :2.16%, Unsatisfactory :6.17%					

***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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