



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. : 3377

Distribution No.: 160-I

Month/Year: June/2023

Instrument ID: Yumizen H550 (909YAXH02675)

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,
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Date of issue & status of the report: 08-08-2023[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	3.47	2.85	6.32	12	0.089	-3.02	0.62	0.1	0.013	4.68
RBC x10 ⁶ /µl	1	4.95	4.89	9.84	9.61	0.014	0.98	0.06	0.04	0.004	0.45
Hb g/dl	1	15.3	15.2	30.5	30.3	0.054	0.22	0.1	0.1	0.011	0.00
HCT%	1	46.2	45.2	91.4	92.3	0.320	-0.14	1	0.4	0.041	1.35
MCV-fl	1	93.3	92.5	185.8	193	0.544	-0.68	0.8	0.3	0.031	1.35
MCH-Pg	1	31.2	30.7	61.9	63	0.106	-0.56	0.5	0.3	0.023	0.90
MCHC-g/dl	1	33.8	32.8	66.6	64.6	0.229	0.45	1	0.3	0.028	2.36
Plt. x10 ³ /µl	1	124	119	243	305	2.716	-1.37	5	5	0.459	0.00
Retic %	2	3	2.7	5.7	5.4	0.169	0.09	0.3	0.3	0.032	0.00

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs=3 , Poly=10 L=8, E=0, Mono/Promono=2 , B1=19 P.M.=51, Mye=5, Meta=6, Other=Leucocytosis with Thrombocytopenia	Blast: 38-63, Poly: 9-17, Lympho: 8-20, Myelo: 2-9, Mono: 1-5, nRBC/Promyelo/Meta/Eos: 0-5		
RBC Morphology	3	Mild Anisocytosis. Normocytic Normochromic with few Microcytes.	Predominantly: Normocytic/Normochromic; Moderate: Microcytosis, Hypochromia; Mild: Anisocytosis		
Diagnosis	3	AML-M3 (Acute Promyelocytic Leukemia-Microgranular/Hypogranular variant)	Acute Myeloid Leukemia (AML)		

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 160--I	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	145	143	86.71	86.71	4.2	4.9	9.09	8.39
RBC x10⁶/µl	1	145	145	84.14	88.97	7.59	2.07	8.27	8.96
Hb g/dl	1	145	145	85.52	86.9	6.21	6.9	8.27	6.2
HCT%	1	145	143	93.01	90.21	4.9	5.59	2.09	4.2
MCV-fl	1	145	143	93.71	88.11	4.2	7.69	2.09	4.2
MCH-Pg	1	145	143	87.41	93.01	5.59	2.8	7	4.19
MCHC-g/dl	1	145	143	93.71	90.21	4.2	2.8	2.09	6.99
Plt. x10³/µl	1	145	143	90.21	93.01	8.39	1.4	1.4	5.59
ReticCount%	2	145	134	92.54	95.52	5.97	0.00	1.49	4.48
PS Assessment	3	145	129	Satisfactory :91.05%, Borderline Sat. :2.06%, Unsatisfactory :6.89%					

***Comments:**

1). **Among Lab (EQA) : CBC result for WBC unacceptable, may be due to random/human error**

2). **Within Lab (IQA) : Difference in the CBC measurement values for WBC unacceptable, may be due to random/human error.**

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 > ±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 > ±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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