

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. : 5341

Distribution No.: 158-N **Month/Year:** February/2023

Instrument ID: Yumizen H 550 - 201YAXH03629

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Date of issue & status of the report: 28-02-2023[Final].

CBC and Retic Assessment

				Among Lab (Accuracy Testing)				Within Lab (Precision Testing)				
Test Parameters	S.No.	Your Result 1		Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score	Deculto		Uncertainty of Assigned Values	Z Score	
WBC x10³/µl	1	1.2	1.02	2.22	14.94	0.0360	-14.21	0.18	0.1	0.0080	0.77	
RBC x10 ⁶ /µl	1	4.01	3.99	8	7.31	0.0090	2.91	0.02	0.04	0.0020	-0.54	
Hb g/dl	1	12.8	12.6	25.4	24.9	0.0270	0.82	0.2	0.1	0.0080	0.79	
HCT%	1	38.2	38. <mark>2</mark>	76.4	78.15	0.1710	-0.33	0	0.4	0.0250	-0.90	
MCV-fl	1	95.7	95.2	190.9	214.85	0.4180	-1.80	0.5	0.3	0.0230	0.54	
MCH-Pg	1	32	31.4	63.4	68.1	0.0800	-2.24	0.6	0.3	0.0220	0.81	
MCHC-g/dl	1	33.4	33	66.4	63.4	0.1470	0.67	0.4	0.3	0.0200	0.27	
Plt. x10³/µl	1	179	169	348	319	1.68	0.56	10	5	0.32	0.96	
Retic %	2	5	4	9	10	0.18	-0.20	1	0.5	0.03	0.84	

P.S. Assesment

		YOUR REPORT	CONSENSUS REPORT				
DLC%	2	Nrbcs=4, Poly=6 L=89, E=0, Mono/Promono=3, B1=2 P.M.=0, Mye=0, Meta=0, Other=Atypical Lymphoid cells seen	Lympho: 49-73, Blast: 5-35, Poly:4-10, nRBC/Eos/Baso/Mono /Myelo/Meta/ Promyelo: 0-5				
RBC Morphology	3	INORMOCITIC NORMOCHROMIC Spherocytes	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic				
Diagnosis	3	Aleukemic Leukemia	Acute Leukemia (AL)				

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COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test never store	S No	Total participants covered in the	Total No. responded	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3		
Test parameters	5.NO.	current dist. 158N		Among labs	Within lab	Among labs	Within lab	Among labs	Within lab	
WBC x10 ³ /µl	1	342	340	<mark>8</mark> 0	85.59	4.71	3.53	15.29	10.88	
RBC x10 ⁶ /µl	1	342	342	<u>88.3</u>	90.35	6.73	3.51	4.97	6.14	
Hb g/dl	1	342	342	86.55	85.96	6.73	6.73	6.72	7.31	
HCT%	1	342	3 <mark>40</mark>	95.88	87.94	3.53	5.29	0.59	6.77	
MCV-fl	1	342	340	97.35	92.35	1.76	2.35	0.89	5.3	
MCH-Pg	1	342	340	86.47	<mark>88</mark> .24	8.82	6.47	4.71	5.29	
MCHC-g/dl	1	342	340	95.59	90.88	3.24	4.71	1.17	4.41	
Plt. x10³/µl	1	342	340	95	90	3.24	3.82	1.76	6.18	
ReticCount%	2	342	265	94.34	89.81	4.53	5.66	1.13	4.53	
PS Assessment	3	342	244	Satisfactory :81.59%, Borderline Sat. :11.40%, Unsatisfactory :7.01%						

*Comments:

1). Among Lab (EQA) : CBC result for WBC unacceptable, may be due to random/human error.PS Diagnosis partially correct, remaining 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 > ± 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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