



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. : 5993

Distribution No.: 164-0

Month/Year: July/2024

Instrument ID: SYSMEX

Model Name.: XN-330

Serial No.: 14610

Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra (Prof. & Head), Hematology, AIIMS, Delhi,
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Date of issue & status of the report: 31-08-2024 [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	6.43	6.25	12.68	12.4	0.051	0.20	0.18	0.1	0.008	0.67
RBC x10 ⁶ /μl	1	4.46	4.35	8.81	8.91	0.012	-0.34	0.11	0.04	0.003	1.89
Hb g/dl	1	12.8	12.8	25.6	25.8	0.029	-0.22	0	0.1	0.008	-0.67
HCT%	1	43.2	42.4	85.6	82.5	0.211	0.60	0.8	0.4	0.025	1.08
MCV-fl	1	97.5	96.9	194.4	185.7	0.377	0.83	0.6	0.3	0.023	0.81
MCH-Pg	1	25.6	25.5	51.1	52.25	0.045	-0.86	0.1	0.2	0.012	-0.67
MCHC-g/dl	1	30.2	29.6	59.8	62.2	0.163	-0.56	0.6	0.2	0.015	1.35
Plt. x10 ³ /μl	1	200	200	400	417	1.965	-0.33	0	6	0.353	-1.01
Retic %	2	16.6	15.3	31.9	27.1	0.394	0.43	1.3	0.6	0.047	0.94

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs=1 , Poly=76 L=17, E=1, Mono/Promono=06 , B1=0 P.M.=0, Mye=0, Meta=0, Other=-	Poly: 73-82, Lympho: 12-20, Mono: 2-5, Eos: 1-2, Blast/Promyelo/Myelo/Meta/Baso :0-5		
RBC Morphology	3	Normocytic normochromic with schistocytes and polychromatophils	RBC morphology shows marked anisopoikilocytosis with microcytic, normocytic, and macrocytic cells, polychromasia, schistocytes, spherocytosis, rouleaux formation, and nucleated RBCs.		
Diagnosis	3	Microangiopathic hemolytic anemia	Microangiopathic Hemolytic Anemia (MAHA)		

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 164--0	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 x10 ³ /μl	1	310	308	84.74	90.26	6.82	3.57	8.440	6.17
RBC x10 ⁶ /μl	1	310	310	87.1	90.97	5.81	2.9	7.09	6.13
Hb g/dl	1	310	310	89.35	88.39	4.84	4.52	5.81	7.09
HCT%	1	310	308	88.31	88.96	7.14	5.84	4.55	5.2
MCV-fl	1	310	307	94.14	91.53	3.58	1.95	2.28	6.52
MCH-Pg	1	310	308	87.01	92.53	6.17	1.62	6.82	5.85
MCHC-g/dl	1	310	308	87.99	89.29	7.79	3.57	4.22	7.14
Plt. x10 ³ /μl	1	310	309	88.67	90.94	6.47	3.56	4.86	5.5
ReticCount%	2	310	225	92.89	90.22	4.44	7.56	2.67	2.22
PS Assessment	3	310	233	Satisfactory :80.66%, Borderline Sat. :13.22%, Unsatisfactory :6.12%					

***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 > ±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 $(x-\bar{y})$ 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

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