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

PC-1002

Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens

EQAP CODE No. : 433   **Distribution No.: 163-A**   **Month/Year:** January/2024

Instrument ID: Sysmex J K Biomed   **Model Name.:** Sysmex XN 1000   **Serial No.:** 51194

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: 05-04-2024[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 x10³/µl	1	8.28	8.27	16.55	16.6	0.050	-0.04	0.01	0.11	0.007	-0.96
RBC x10⁶/µl	1	5.14	5.13	10.27	10.18	0.009	0.35	0.01	0.04	0.003	-0.67
Hb g/dl	1	13.5	13.4	26.9	26.53	0.019	0.71	0.1	0.1	0.007	0.00
HCT%	1	42.1	41.9	84	83.9	0.145	0.02	0.2	0.3	0.022	-0.27
MCV-fl	1	81.9	81.7	163.6	165.15	0.234	-0.21	0.2	0.2	0.018	0.00
MCH-Pg	1	26.3	26.1	52.4	52.2	0.045	0.15	0.2	0.2	0.012	0.00
MCHC-g/dl	1	32.1	32	64.1	63.1	0.111	0.31	0.1	0.2	0.015	-0.45
Plt. x10³/µl	1	95	85	180	116.5	1.599	1.26	10	5	0.302	0.96
Retic %	2	10.3	10.2	20.5	27.4	0.394	-0.62	0.1	0.6	0.047	-0.71

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=07 , Poly=59 L=32, E=03, Mono/Promono=06 , B1=00 P.M.=00, Mye=00, Meta=00, Other=	Poly: 56 – 65, Lympho: 30– 38, Mono: 2-4, Eosino: 1-3, Myelo/Meta/Promyelo/Blast/Baso: 0-5
RBC Morphology	3	Normocytic nomrochromic with anisopoikilocytosis showing good number of spherocytes and nRBCs.	Predominantly: Normocytic/Normochromic with Mild Anisocytosis
Diagnosis	3	Normocytic normochromic anemia with features of hemolysis. D/D: Hereditary spehrocytosis/ Autoimmune hemolytic anemia	SPherocytic Hemolytic Anemia

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 163--A	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	357	356	86.52	91.01	6.74	1.69	6.74	7.3
RBC x10⁶/µl	1	357	357	90.2	89.36	5.04	3.92	4.76	6.72
Hb g/dl	1	357	357	90.2	89.92	4.76	4.76	5.04	5.32
HCT%	1	357	357	92.98	91.01	4.49	1.97	2.53	7.02
MCV-fl	1	357	356	95.51	88.2	3.65	6.18	0.84	5.62
MCH-Pg	1	357	356	90.17	91.29	5.62	3.37	4.21	5.34
MCHC-g/dl	1	357	356	92.98	89.61	5.34	3.37	1.68	7.02
Plt. x10³/µl	1	357	356	95.51	89.89	1.69	3.37	2.8	6.74
ReticCount%	2	357	335	93.13	91.94	5.07	3.88	1.8	4.18
PS Assessment	3	357	317	Satisfactory :89.64%, Borderline Sat. :5.32%, Unsatisfactory :5.04%					

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 ($\overline{x}$-$\overline{y}$) 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
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