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. : 6500 **Distribution No.:** 162-P **Month/Year:** February/2024

Instrument ID: Sysmex **Model Name.:** XN350 **Serial No.:** 17500

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: 10-04-2024[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 x10^3/µl	1	8.71	8.67	17.38	16.4	0.045	0.74	0.04	0.2	0.009	-1.08
RBC x10^6/µl	1	5.93	5.91	11.84	11.62	0.017	0.44	0.02	0.07	0.004	-0.61
Hb g/dl	1	15.6	15.5	31.1	31	0.045	0.07	0.1	0.1	0.009	0.00
HCT%	1	50.8	50.5	101.3	103.8	0.236	-0.34	0.3	0.6	0.040	-0.37
MCV-fl	1	85.7	85.4	171.1	180.8	0.251	-1.21	0.3	0.2	0.015	0.34
MCH-Pg	1	26.4	26.1	52.5	53.4	0.043	-0.76	0.3	0.2	0.014	0.45
MCHC-g/dl	1	30.9	30.5	61.4	59.3	0.097	0.73	0.4	0.3	0.017	0.27
Plt. x10^3/µl	1	134	128	262	261	1.604	0.02	6	9	0.500	-0.31
Retic %	2	4.5	3.5	8	13.5	0.229	-0.82	1	0.5	0.037	0.56

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=3 L=95, E=1, Mono/Promono=1 , B1=0 P.M.=0, Myc=0, Meta=0, Other=	Lymp: 80-92, Poly: 5-10, nRBC/blast/Eosino/Myelo/Meta/Mono: 0-5
RBC Morphology	3	Normochromic Normocytic	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Mild: Poikilocytosis, Microcytic, Hypochromic
Diagnosis	3	Chronic Lymphocytic Leukemia (CLL)	Chronic Lymphocytic Leukemia (CLL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 162--P	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	417	413	87.17	88.86	5.81	4.84	7.02	6.3
RBC $x10^6$/µl	1	417	417	87.77	88.01	2.88	4.08	9.35	7.91
Hb g/dl	1	417	417	88.97	84.89	3.12	6	7.91	9.11
HCT%	1	417	412	90.29	89.08	4.85	3.88	4.86	7.04
MCV-fl	1	417	413	92.01	88.14	4.84	4.36	3.15	7.5
MCH-Pg	1	417	413	83.78	93.7	7.51	1.69	8.71	4.61
MCHC-g/dl	1	417	413	87.89	90.07	8.47	4.84	3.64	5.09
Plt. $x10^3$/µl	1	417	413	90.31	89.35	6.05	3.87	3.64	6.78
ReticCount%	2	417	85	92.94	94.12	3.53	3.53	3.53	2.35
PS Assessment	3	417	80	Satisfactory :98.81%, Borderline Sat. :0%, Unsatisfactory :1.19%					

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 ($\bar{x}$-$\bar{y}$) 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. Manoranjan Mahapatra (Prof. & Head)
PT Co-ordinator: ISHTM-AIIMS-EQAP
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