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. : 1196 **Distribution No.:** 163-D **Month/Year:** March/2024

Instrument ID: SYSMEX LTD JAPAN **Model Name.:** XN 350 **Serial No.:** 11359

Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra (Prof. & Head), Hematology, AIIMS, Delhi, Tel: 9013085730 , E-Mail : info@ishtmaiimseqap.com

Date of issue & status of the report: 01-05-2024[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	4.32	4.32	8.64	8.82	0.037	-0.16	0	0.1	0.006	-0.90
RBC x10^6/µl	1	4.26	4.25	8.51	8.56	0.008	-0.21	0.01	0.03	0.002	-0.54
Hb g/dl	1	13.1	13.1	26.2	26.8	0.019	-1.01	0	0.1	0.007	-0.67
HCT%	1	42.1	42	84.1	83.2	0.135	0.22	0.1	0.3	0.022	-0.54
MCV-fl	1	98.8	98.8	197.6	194.55	0.259	0.37	0	0.3	0.020	-1.01
MCH-Pg	1	30.8	30.8	61.6	62.6	0.055	-0.67	0	0.2	0.015	-0.90
MCHC-g/dl	1	31.2	31.1	62.3	64.2	0.102	-0.58	0.1	0.2	0.016	-0.34
Plt. x10^3/µl	1	258	256	514	514	1.336	0.00	2	6	0.336	-0.67
Retic %	2	7	6	13	12.85	0.279	0.02	1	0.4	0.024	1.01

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=2 , Poly=5 L=2, E=0, Mono/Promono=0 , B1=65 P.M.=28, Mye=0, Meta=0, Other=	Blast: 65-89, Poly: 4-9, Lympho: 3-8, Myelo/Mono/Promyelo/Meta/Eos/Baso: 0-5
RBC Morphology	3	NORMOCYTIC NORMOCHROMIC ANEMIA WITH OCCASIONAL MACROCYTES	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Mild: Microcytosis, Poikilocytosis
Diagnosis	3	ACUTE LEUKEMIA PROBABLY MYELOID/PROMYELOCYTIC	Acute Myeloid Leukemia(AML)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 163--D	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 $x10^3/\mu l$	1	365	362	91.16	92.82	2.76	2.49	6.08	4.69
RBC $x10^6/\mu l$	1	365	365	89.04	92.6	6.85	2.47	4.11	4.93
Hb g/dl	1	365	365	88.49	89.04	6.58	4.66	4.93	6.3
HCT%	1	365	362	93.65	91.16	4.7	3.59	1.65	5.25
MCV-fl	1	365	362	95.03	86.19	3.59	7.46	1.38	6.35
MCH-Pg	1	365	361	88.09	91.41	7.2	3.05	4.71	5.54
MCHC-g/dl	1	365	361	93.35	88.92	3.88	4.71	2.77	6.37
Plt. $x10^3/\mu l$	1	365	362	90.06	92.54	6.35	3.59	3.59	3.87
ReticCount%	2	365	326	96.93	93.25	2.76	4.29	0.31	2.46
PS Assessment	3	365	338	Satisfactory :95.9%, Borderline Sat. :1.64%, Unsatisfactory :2.46%					

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,

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