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. : 3752 **Distribution No.:** 155-J **Month/Year:** March/2022

Instrument ID: Sysmex XN550,5Part,SN.20102

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,
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Date of issue & status of the report: 31-05-2022[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	5	4.9	9.9	10.56	0.0580	**-0.47**	0.1	0.1	0.0100	**0.00**
RBC x10^6/µl	1	4.8	4.7	9.5	9.37	0.0140	**0.36**	0.1	0.05	0.0040	**0.96**
Hb g/dl	1	14.1	14.1	28.2	28	0.0370	**0.25**	0	0.1	0.0100	**-0.67**
HCT%	1	42.9	42.4	85.3	84.1	0.1710	**0.29**	0.5	0.5	0.0310	**0.00**
MCV-fl	1	90.2	89.4	179.6	179.8	0.2720	**-0.03**	0.8	0.3	0.0310	**0.96**
MCH-Pg	1	30	29.4	59.4	59.55	0.1010	**-0.07**	0.6	0.3	0.0200	**1.01**
MCHC-g/dl	1	33.3	32.9	66.2	66.5	0.1520	**-0.09**	0.4	0.3	0.0230	**0.34**
Plt. x10^3/µl	1	374	370	744	286	2.24	**9.09**	4	8	0.55	**-0.48**
Retic %	2	4.5	4.3	8.8	8	0.15	**0.21**	0.2	0.4	0.03	**-0.54**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=05 L=01, E=00, Mono/Promono= , B1=95 P.M.=0, Mye=0, Meta=0, Other=	Blast: 60-85, Poly: 2-6, Lympho: 6-21, nRBC/mono/Eosino/Myelo/Meta/promyelo: 0-1
RBC Morphology	3	Majority of the RBCs are Normochromic Normocytic and Many Microcytic Hypochromic RBCs	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic
Diagnosis	3	Acute Leukemia	Acute Leukemia (AL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 155--J	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	252	250	87.2	81.6	2	3.6	10.8	14.8
RBC $x10^6$/µl	1	252	252	90.48	87.7	4.37	3.97	5.15	8.33
Hb g/dl	1	252	252	85.71	89.68	5.95	5.16	8.34	5.16
HCT%	1	252	250	90.4	88.8	5.2	4	4.4	7.2
MCV-fl	1	252	249	91.97	92.77	5.22	2.81	2.81	4.42
MCH-Pg	1	252	250	89.6	88.8	5.2	2.4	5.2	8.8
MCHC-g/dl	1	252	250	87.6	86	7.2	7.6	5.2	6.4
Plt. $x10^3$/µl	1	252	248	84.68	90.73	6.45	4.44	8.87	4.83
ReticCount%	2	252	230	92.61	94.78	4.35	0.87	3.04	4.35
PS Assessment	3	252	236	Satisfactory :94.82%, Borderline Sat. :3.58%, Unsatisfactory :1.59%					

*Comments:

1). Among Lab (EQA) : CBC result for PLT unacceptable, may be due to random/human error

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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