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. : 3837 **Distribution No.:** 157-J **Month/Year:** September/2022

Instrument ID: SYSMEX XN350 (14501)

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,
Tel: 9013085730 , E-Mail : accuracy2000@gmail.com

Date of issue & status of the report: 27-09-2022[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	6.95	6.78	13.73	12.25	0.0000	**0.93**	0.17	0.1	0.0000	**0.63**
RBC x10^6/µl	1	4.63	4.6	9.23	9.01	0.0000	**0.87**	0.03	0.03	0.0000	**0.00**
Hb g/dl	1	13.4	13.4	26.8	27	0.0000	**-0.27**	0	0.1	0.0000	**-1.35**
HCT%	1	41.4	41.2	82.6	83	0.0000	**-0.10**	0.2	0.4	0.0000	**-0.45**
MCV-fl	1	89.6	89.4	179	183.9	0.0000	**-0.71**	0.2	0.4	0.0000	**-0.30**
MCH-Pg	1	29.1	28.9	58	60.1	0.0000	**-1.23**	0.2	0.2	0.0000	**0.00**
MCHC-g/dl	1	32.5	32.4	64.9	65	0.0000	**-0.03**	0.1	0.3	0.0000	**-0.54**
Plt. x10^3/µl	1	196	181	377	397	0.00	**-0.56**	15	6	0.00	**1.73**
Retic %	2	2.8	2.5	5.3	6.5	0.00	**-0.29**	0.3	0.25	0.00	**0.22**

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs=1 , Poly=54 L=4, E=0, Mono/Promono=0 , B1=3 P.M.=4, Mye=22, Meta=11, Other=	
RBC Morphology	3	moderate anisocytosismicrocytic with mild hypochromic appearance	
Diagnosis	3	Chronic myeloproliferative disorder	

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 157--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	101	101	70.3	65.35	2.97	2.97	26.73	31.68
RBC $x10^6$/µl	1	101	101	68.32	66.34	0.99	2.97	30.69	30.69
Hb g/dl	1	101	101	66.34	69.31	2.97	1.98	30.69	28.71
HCT%	1	101	101	62.38	68.32	8.91	3.96	28.71	27.72
MCV-fl	1	101	101	63.37	69.31	6.93	4.95	29.7	25.74
MCH-Pg	1	101	101	62.38	62.38	4.95	5.94	32.67	31.68
MCHC-g/dl	1	101	101	64.36	65.35	6.93	5.94	28.71	28.71
Plt. $x10^3$/µl	1	101	101	56.44	67.33	7.92	3.96	35.64	28.71
ReticCount%	2	101	62	98.39	85.48	1.61	3.23	0	11.29
PS Assessment	3	101	87	Satisfactory :, Borderline Sat. :, Unsatisfactory :					

*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. Seema Tyagi (Prof.)
PT Co-ordinator: ISHTM-AIIMS-EQAP
Department of Hematology, AIIMS, New Delhi

----------End Of Report----------