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

NABL Certificate No. PC - 1002

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

EQAP CODE No. : 3639 **Distribution No.:** 153-J **Month/Year:** September/2021

Instrument ID: SYSMEX XN-550/17581

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: 11-11-2021[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 $x10^3/\mu l$	1	4.84	4.71	9.55	10.6	0.0380	**-1.09**	0.13	0.14	0.0100	**-0.09**
RBC $x10^6/\mu l$	1	4.52	4.45	8.97	9.19	0.0120	**-0.78**	0.07	0.06	0.0040	**0.19**
Hb g/dl	1	14.2	14	28.2	27.8	0.0330	**0.54**	0.2	0.2	0.0110	**0.00**
HCT%	1	39.8	38.7	78.5	84	0.1920	**-1.22**	1.1	0.5	0.0420	**1.08**
MCV-fl	1	88.1	87	175.1	183.7	0.3140	**-1.23**	1.1	0.4	0.0310	**1.18**
MCH-Pg	1	31.5	31.4	62.9	60.75	0.0850	**1.12**	0.1	0.3	0.0220	**-0.67**
MCHC-g/dl	1	36.2	35.7	71.9	66.2	0.1490	**1.56**	0.5	0.4	0.0270	**0.27**
Plt. $x10^3/\mu l$	1	227	217	444	401	1.61	**1.18**	10	8	0.51	**0.27**
Retic %	2	0.5	0.5	1	3.6	0.10	**-0.96**	0	0.3	0.02	**-1.35**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=76 L=20, E=2, Mono/Promono=2 , B1=0 P.M.=0, Mye=0, Meta=0, Other=	Nrbcs: 0, Poly: 69-73, Lympho: 23-27, Eosino: 2-3, Mono/Promono: 4-6, Blast: 0, ProMyelo: 0, Myelo: 0, Meta: 0
RBC Morphology	3	MILD HYPOCHROMIC MICROCYTIC	Predominant: Anisopoikilocytosis, Microcytic, Hypochromia, Moderate: NC/NC, Macrocytic, Pencil Cells, Tear Drop Cells, Target Cells
Diagnosis	3	NUETRITIONAL ANEMIA	Microcytic Hypochromic Anemia/ Iron Deficiency Anemia

EQAP Code No.: 3639 *Distribution No.: 153-J Month/Year: September/2021* *Instrument ID: SYSMEX XN-550/17581*

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist.	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	245	240	82.92	89.58	4.17	3.33	15	9.17
RBC $x10^6/\mu l$	1	245	240	88.75	87.92	7.5	5.83	5.83	8.33
Hb g/dl	1	245	241	87.55	90.46	5.81	0.41	8.3	6.64
HCT%	1	245	239	89.54	87.87	6.28	5.86	6.69	8.79
MCV-fl	1	245	240	87.5	92.08	7.5	6.67	7.08	3.33
MCH-Pg	1	245	240	88.33	88.75	6.25	6.67	7.5	6.25
MCHC-g/dl	1	245	240	93.75	91.25	3.75	5.42	4.58	5
Plt. $x10^3/\mu l$	1	245	240	88.75	93.33	7.5	3.75	5.83	5
ReticCount%	2	245	212	106.13	99.06	6.6	1.42	1.89	14.15
PS Assessment	3	245	226	Acceptable:98.24%,Warning Signal:0.88%,Unacceptable :0.88%					

*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.

Report authorized by,

Dr. Seema Tyagi (Prof.)
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