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. : 3150 **Distribution No.:** 154-H **Month/Year:** December/2021

Instrument ID: B6923

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: 10-03-2022[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	5.1	10.5	10.29	0.0390	**0.33**	0.3	0.1	0.1330	**1.80**
RBC x10^6/µl	1	5.09	5.08	10.17	10.06	0.0170	**0.40**	0.01	0.04	0.0040	**-1.01**
Hb g/dl	1	14.9	14.8	29.7	29.5	0.0450	**0.28**	0.1	0.1	0.0120	**0.00**
HCT%	1	44.3	44.3	88.6	91.9	0.2990	**-0.66**	0	0.4	0.0410	**-1.08**
MCV-fl	1	87.2	87	174.2	183.2	0.4500	**-1.18**	0.2	0.3	0.0320	**-0.45**
MCH-Pg	1	29.3	29.1	58.4	58.7	0.1110	**-0.17**	0.2	0.2	0.0220	**0.00**
MCHC-g/dl	1	33.6	33.4	67	64.1	0.2060	**0.72**	0.2	0.2	0.0260	**0.00**
Plt. x10^3/µl	1	285	276	561	482	2.74	**1.87**	9	7	0.63	**0.32**
Retic %	2	5.4	4.8	10.2	13	0.28	**-0.67**	0.6	0.5	0.05	**0.17**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0.00 , Poly=48.00 L=4.00, E=2.00, Mono/Promono=1.00 , B1=1.00 P.M.=1.00, Mye=19.00, Meta=13.00, Other=0.00	Poly: 40 - 60, Myelo: 11 - 22, Meta: 6 - 14, Blast/nRBC: 1 - 15, Promyelo/Eos/Baso/Lympho/Mono: 0 - 5
RBC Morphology	3	MOSTLY NORMOCYTIC NORMOCHROMIC WITH OCCASIONAL MICROCYTIC CELLS.	Predominantly: Microcytosis, Anisocytosis; Moderate: Hypochromia, Poikilocytosis; Mild: Normocytic/Normochromic, Macrocytosis
Diagnosis	3	CHRONIC MYELOID LEUKEMIA.	Chronic Myeloid Leukemia (CML)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 154--H	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	116	115	85.22	93.91	0.87	4.35	13.91	1.74
RBC x10^6/µl	1	116	116	90.52	88.79	5.17	6.03	4.31	5.18
Hb g/dl	1	116	116	92.24	91.38	4.31	4.31	3.45	4.31
HCT%	1	116	115	96.52	97.39	1.74	0.00	1.74	2.61
MCV-fl	1	116	115	92.17	84.35	5.22	6.09	2.61	9.56
MCH-Pg	1	116	115	92.17	92.17	6.09	4.35	1.74	3.48
MCHC-g/dl	1	116	115	98.26	91.3	0.87	5.22	0.87	3.48
Plt. x10^3/µl	1	116	115	86.96	93.91	9.57	5.22	3.47	0.87
ReticCount%	2	116	116	98.28	92.24	1.72	2.59	0.00	5.17
PS Assessment	3	116	91	Satisfactory :98.31%, Borderline Sat. :0.85%, Unsatisfactory :0.84%					

*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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