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. : 1576 **Distribution No.:** 157-D **Month/Year:** August/2022

Instrument ID: MINDRAY BC 6200

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: 15-10-2022[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	3.02	2.95	5.97	6.13	0.0170	**-0.36**	0.07	0.07	0.0050	**0.00**
RBC x10^6/µl	1	4.32	4.21	8.53	9.36	0.0080	**-3.86**	0.11	0.04	0.0020	**1.89**
Hb g/dl	1	11.2	11.2	22.4	22.6	0.0200	**-0.39**	0	0.1	0.0070	**-1.35**
HCT%	1	36.9	36.3	73.2	78.1	0.1120	**-1.61**	0.6	0.3	0.0210	**1.01**
MCV-fl	1	86.3	85.6	171.9	166.6	0.2100	**0.88**	0.7	0.3	0.0200	**1.08**
MCH-Pg	1	26.6	25.9	52.5	48.2	0.0450	**3.63**	0.7	0.2	0.0110	**3.37**
MCHC-g/dl	1	30.8	30.3	61.1	57.7	0.0940	**1.27**	0.5	0.3	0.0160	**0.67**
Plt. x10^3/µl	1	108	108	216	231	0.95	**-0.59**	0	5	0.28	**-0.96**
Retic %	2										

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=27 L=10, E=2, Mono/Promono=2 , B1=15 P.M.=18, Mye=11, Meta=15, Other=	Blast: 43-80, Poly: 4-12, Lympho: 4-10, Promyelo: 0-12.25, Myelo: 1-6.5, nRBC/Mono/Meta/Eos: 0-5
RBC Morphology	3	normocytic normpchromic, microcytes	Predominantly: Normocytic/Normochromic; Moderate: Microcytosis, Hypochromia; Mild: Anisocytosis, Macrocytosis
Diagnosis	3	Acute Promyelocytic Leukemia	Acute Myeloid Leukemia (AML)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 157--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 $x10^3$/µl	1	354	349	82.81	92.26	3.72	3.44	13.47	4.3
RBC $x10^6$/µl	1	354	354	87.85	88.42	6.21	5.08	5.94	6.5
Hb g/dl	1	354	354	85.31	90.68	5.93	3.95	8.76	5.37
HCT%	1	354	349	89.11	91.12	6.3	4.58	4.59	4.3
MCV-fl	1	354	349	91.12	93.41	5.73	2.58	3.15	4.01
MCH-Pg	1	354	349	85.67	93.98	8.31	2.29	6.02	3.73
MCHC-g/dl	1	354	349	89.68	91.4	5.44	2.87	4.88	5.73
Plt. $x10^3$/µl	1	354	349	88.54	88.83	6.02	6.88	5.44	4.29
ReticCount%	2	354	232	89.22	95.26	9.05	9.91	1.73	-5.17
PS Assessment	3	354	338	Satisfactory :94.64%, Borderline Sat. :3.95%, Unsatisfactory :1.41%					

*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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