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. : 4022 **Distribution No.:** 158-K **Month/Year:** Jun/2023

Instrument ID: MINDRAY BC 3000 PLUS

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: 01-08-2023[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 x10³/µl	1	5.8	5.7	11.5	9.5	0.043	1.98	0.1	0.1	0.029	0.00
RBC x10⁶/µl	1	3.92	3.85	7.77	7.47	0.009	1.56	0.07	0.03	0.003	1.35
Hb g/dl	1	12	12	24	24	0.025	0.00	0	0.1	0.008	-1.35
HCT%	1	39.3	38.3	77.6	73	0.178	1.02	0.6	0.3	0.027	2.36
MCV-fl	1	100.5	99.7	200.2	196.1	0.395	0.41	0.8	0.3	0.029	1.12
MCH-Pg	1	31.1	30.6	61.7	64.2	0.083	-1.30	0.5	0.3	0.018	0.90
MCHC-g/dl	1	31.3	30.5	61.8	65.5	0.156	-0.88	0.8	0.3	0.022	1.69
Plt. x10³/µl	1	190	189	379	312	1.363	0.85	1	4	0.336	-0.67
Retic %	2	7.5	7	14.5	8	0.185	1.34	0.5	0.3	0.023	0.90

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=8 , Poly=68 L=4, E=4, Mono/Promono=3 , B1=0 P.M.=0, Mye=11, Meta=10, Other=giant platelets seen	Poly: 51 – 65, Myelo: 5 - 12, Meta: 5– 11, Lympho: 7– 14, Eosino: 2-6, Promyelo: 0-5, nRBC/Blast/Baso/Mono: 0 – 5
RBC Morphology	3	normocytic ,normochromic,macrocytosis+2	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	leukoerythroblastic reaction	Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 158--K	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	233	229	83.41	88.65	1.75	5.24	14.84	6.11
RBC $x10^6/\mu l$	1	233	233	83.26	85.84	8.15	7.3	8.59	6.86
Hb g/dl	1	233	233	88.41	91.42	6.87	0.86	4.72	7.72
HCT%	1	233	229	94.32	88.65	4.37	3.93	1.31	7.42
MCV-fl	1	233	229	97.38	97.38	2.18	0.87	0.44	1.75
MCH-Pg	1	233	229	90.83	91.27	6.11	4.37	3.06	4.36
MCHC-g/dl	1	233	229	97.38	87.77	1.31	6.55	1.31	5.68
Plt. $x10^3/\mu l$	1	233	229	90.39	93.45	7.86	5.24	1.75	1.31
ReticCount%	2	233	204	96.08	86.27	3.43	1.96	0.49	11.77
PS Assessment	3	233	198	Satisfactory :87.56%, Borderline Sat. :10.30, Unsatisfactory :2.14%					

*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----------